

Figure 1

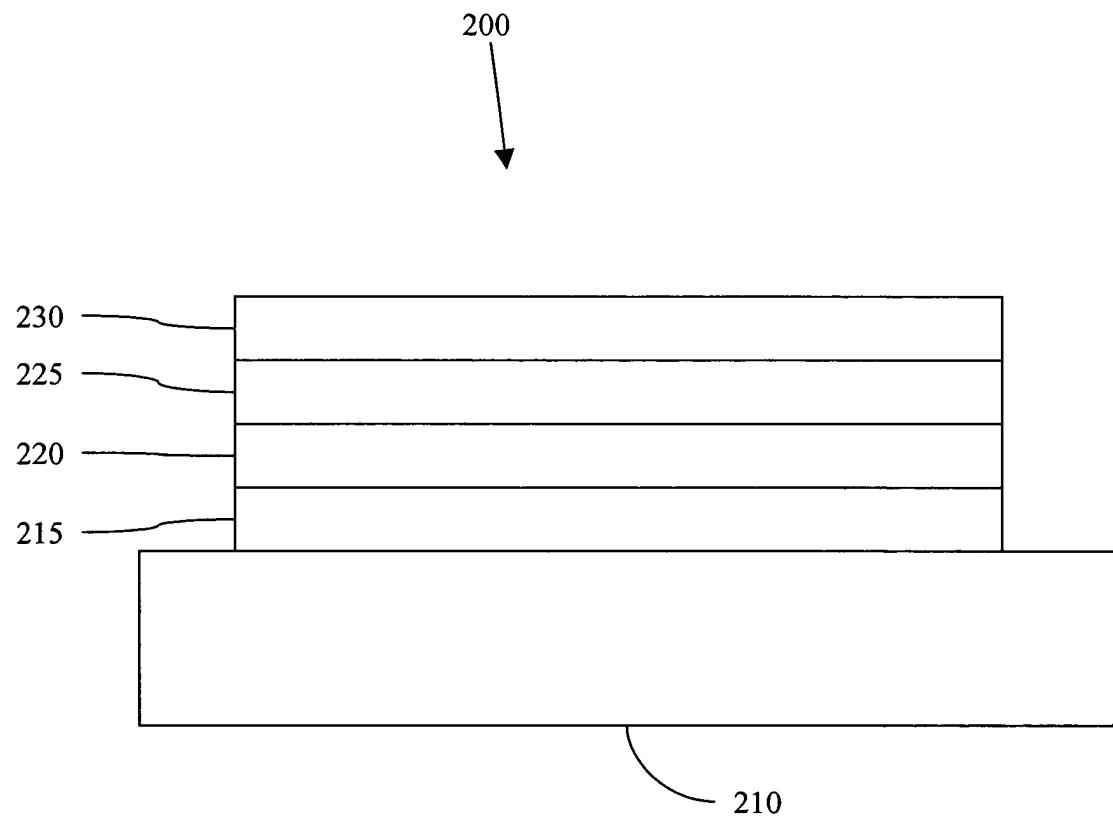


Figure 2

Figure 3

Electrochemistry: 5,5'-Spirobi(dibenzosilole)

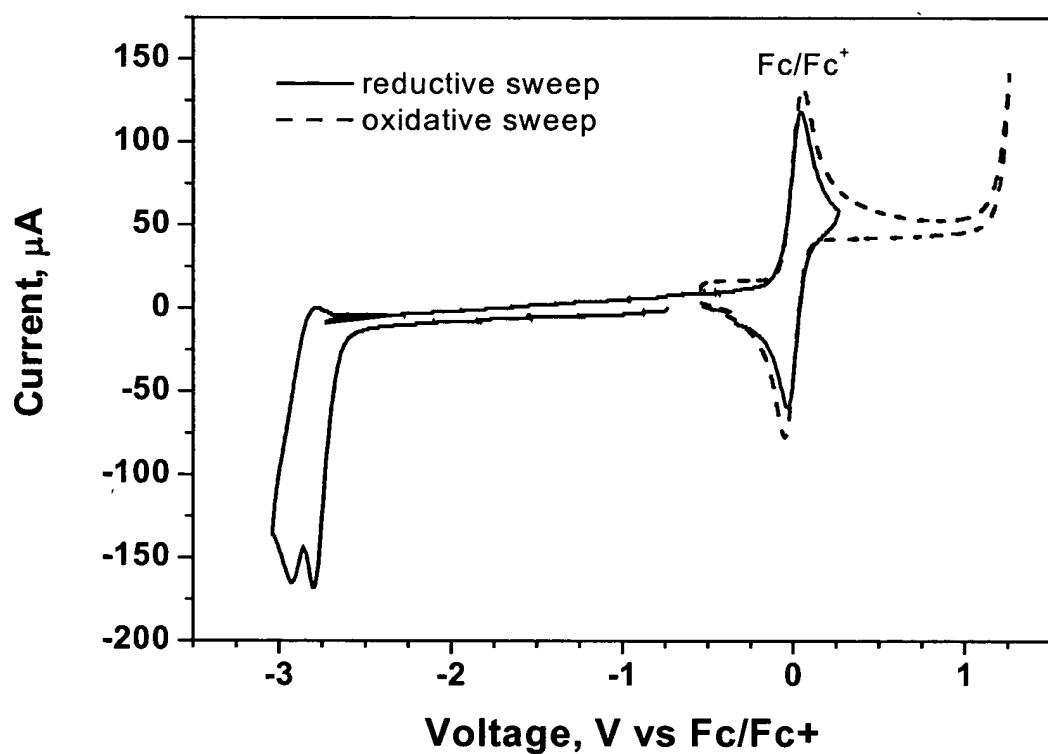


Figure 4

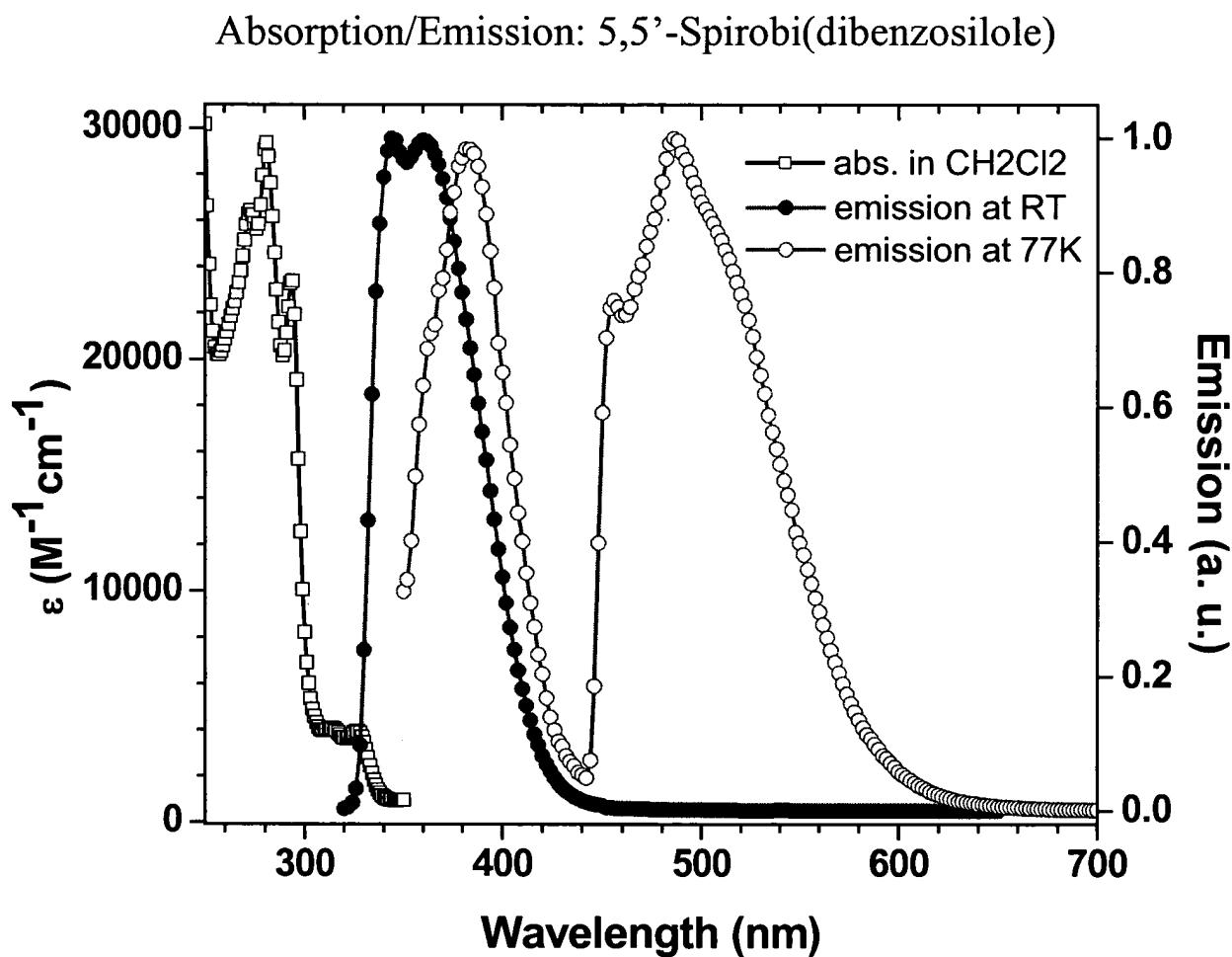


Figure 5

Device structure:

ITO/NPD(400Å)/Host:Irppy(300Å, 8%)/BCP(150Å)/Alq(150Å)/LiF/AI

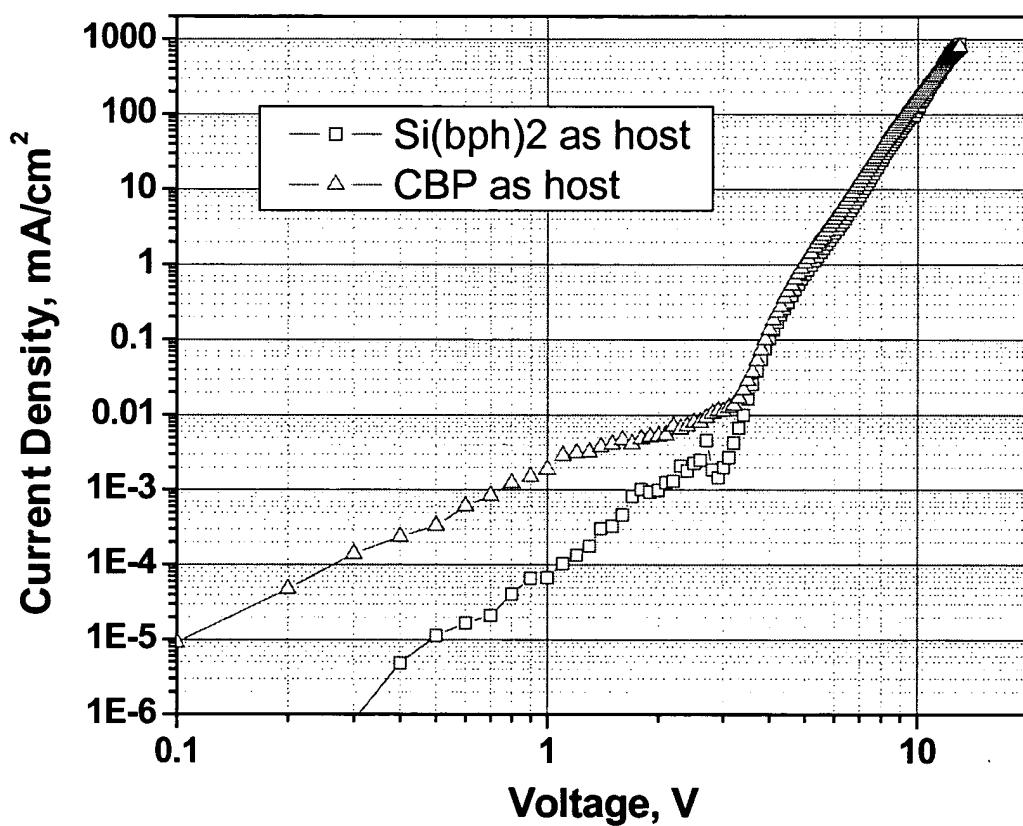


Figure 6

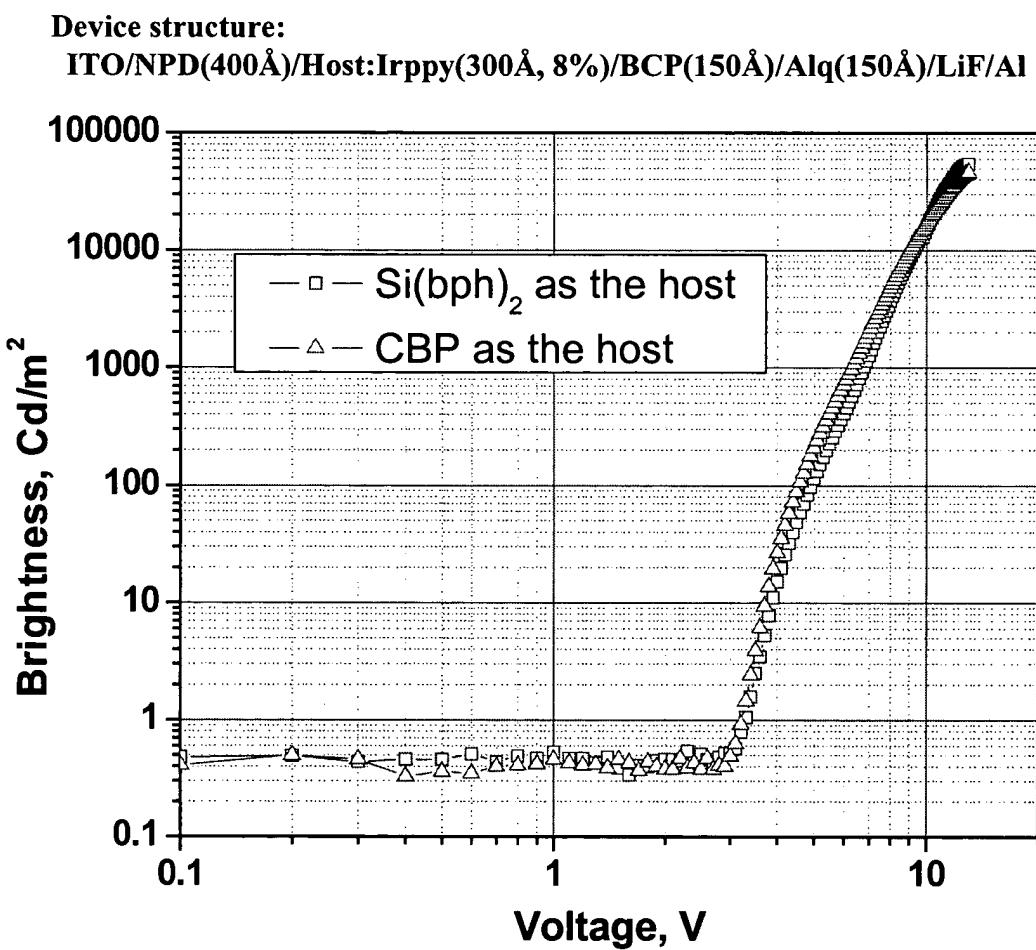


Figure 7

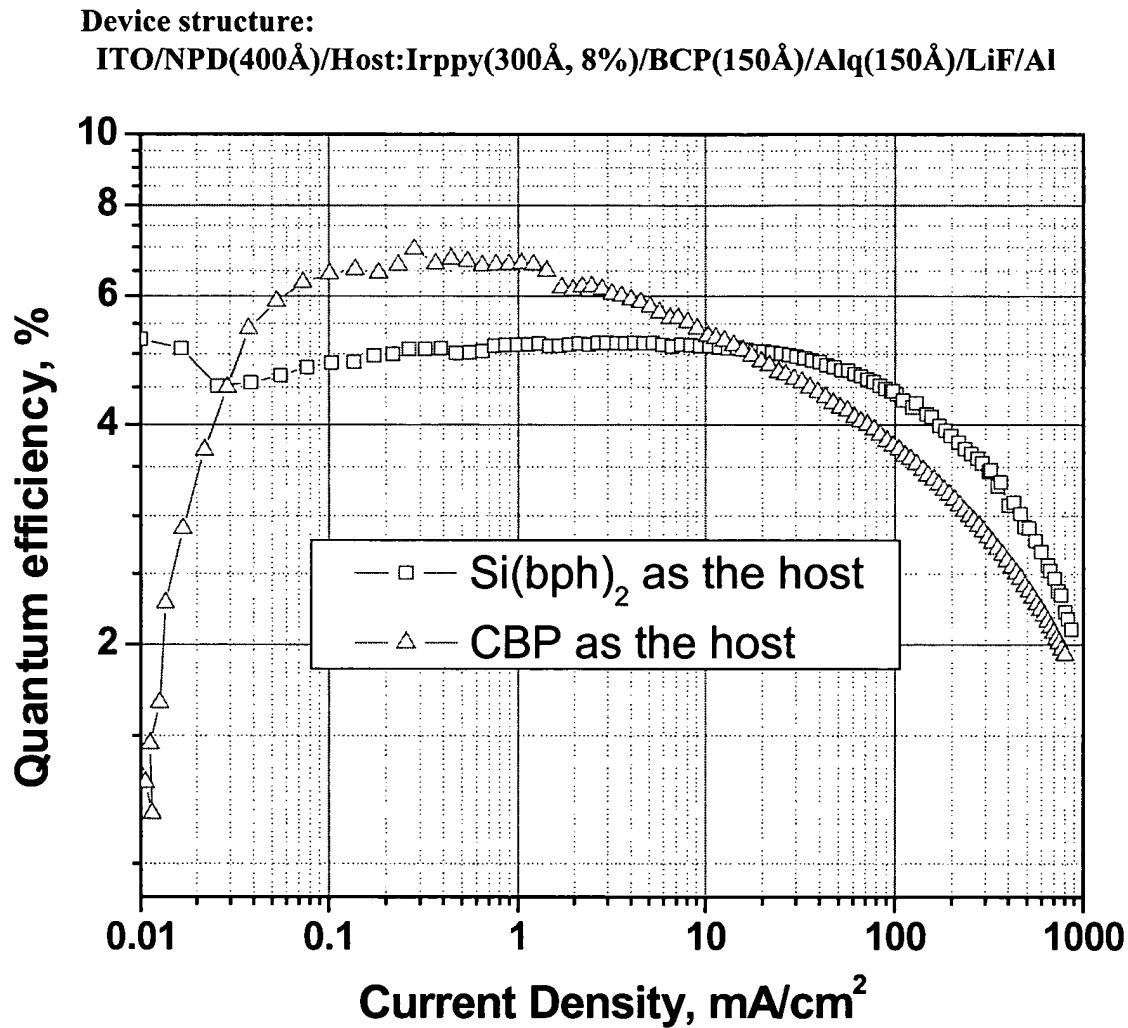


Figure 8

Absorption/Emission: Diphenyldi(*o*-tolyl)silane

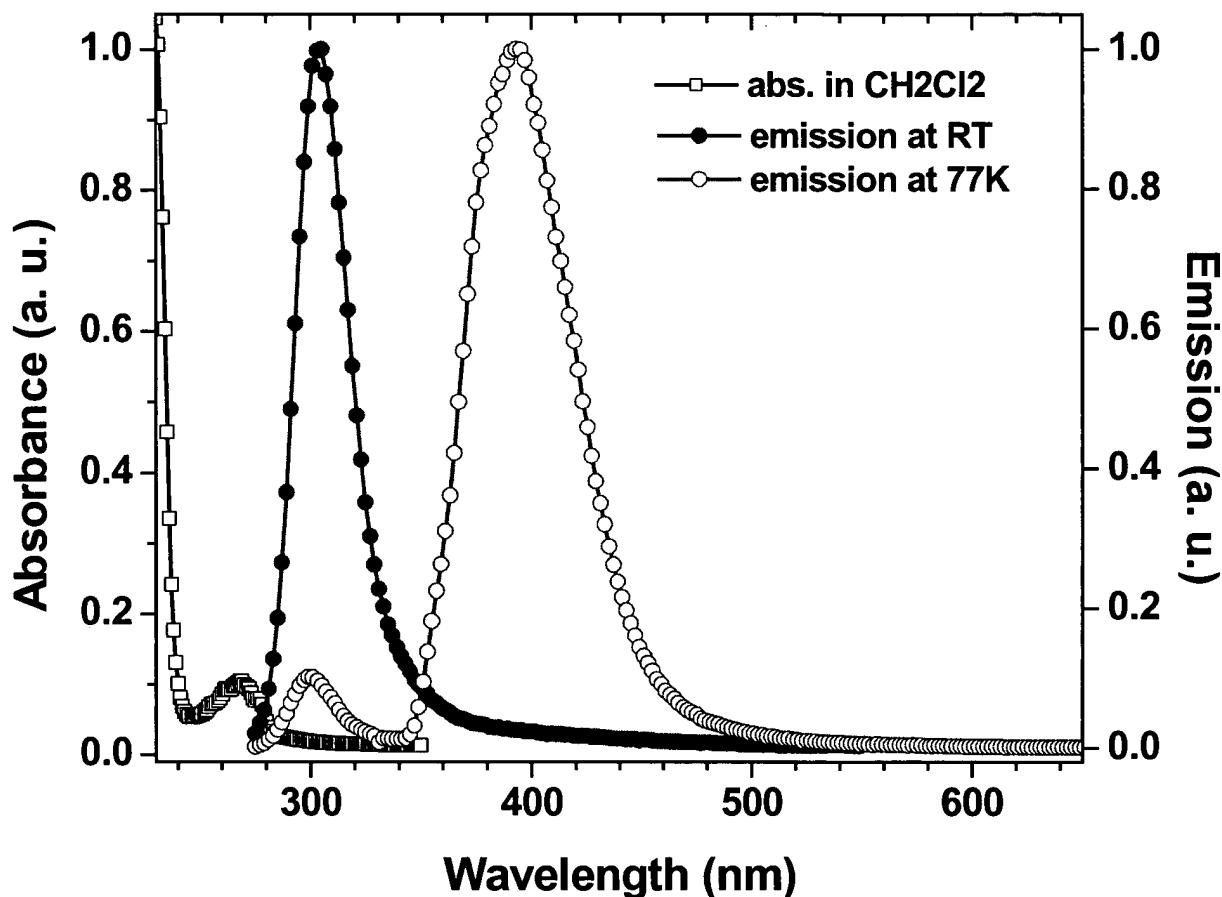


Figure 9

Device Structure:

ITO/NPD(400Å)/Irppy:host(8%, 300Å)/BCP(150Å)/Alq(250Å)/LiF/Al

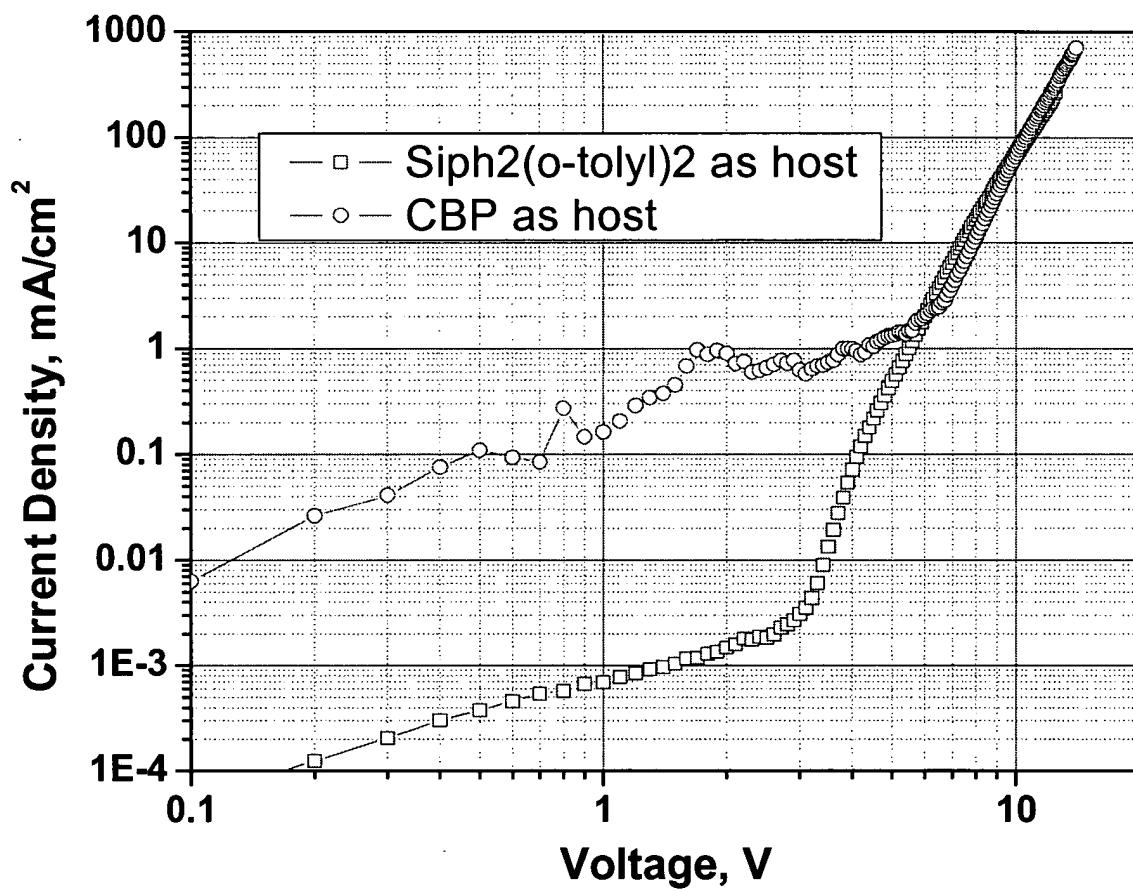


Figure 10

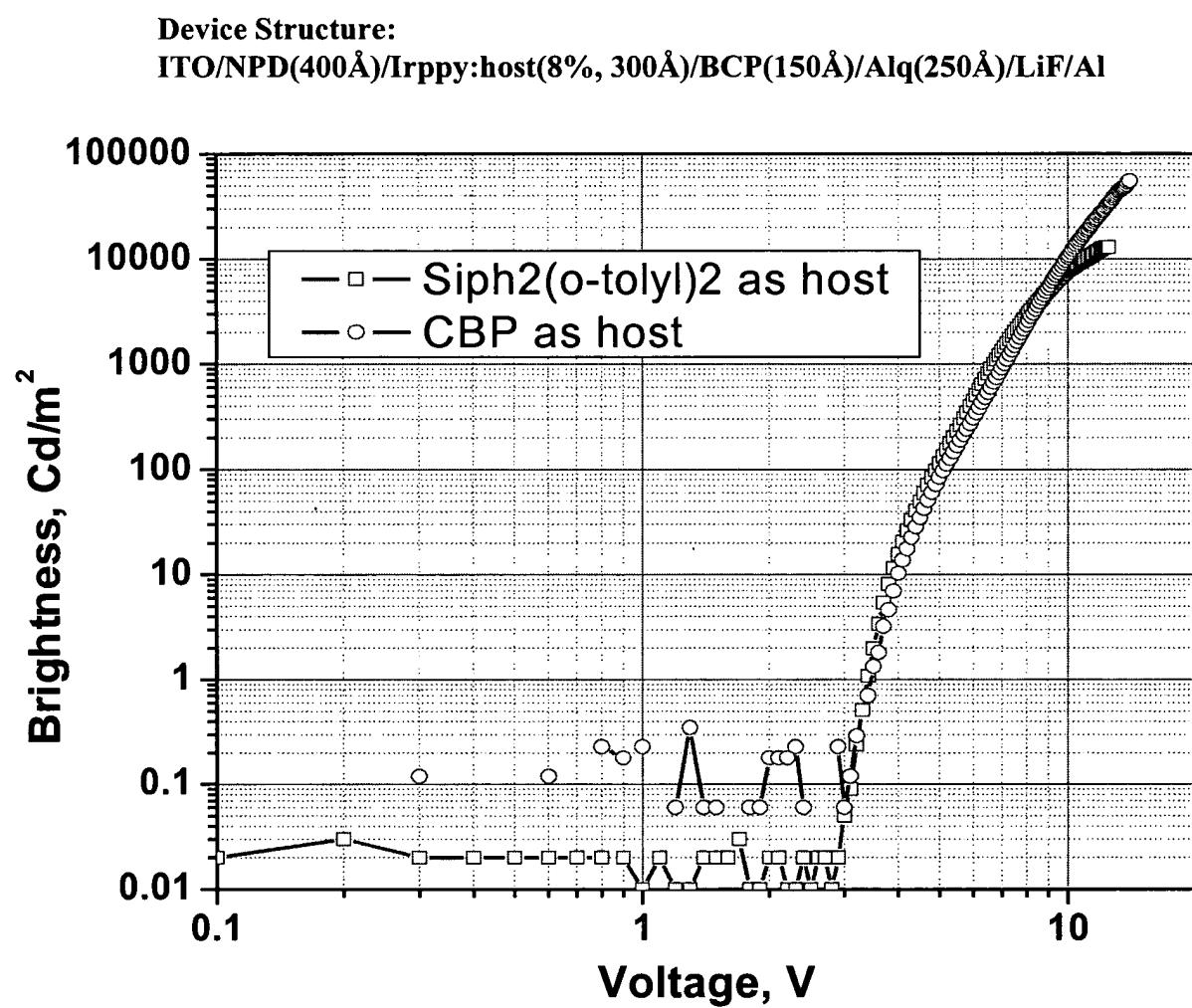


Figure 11

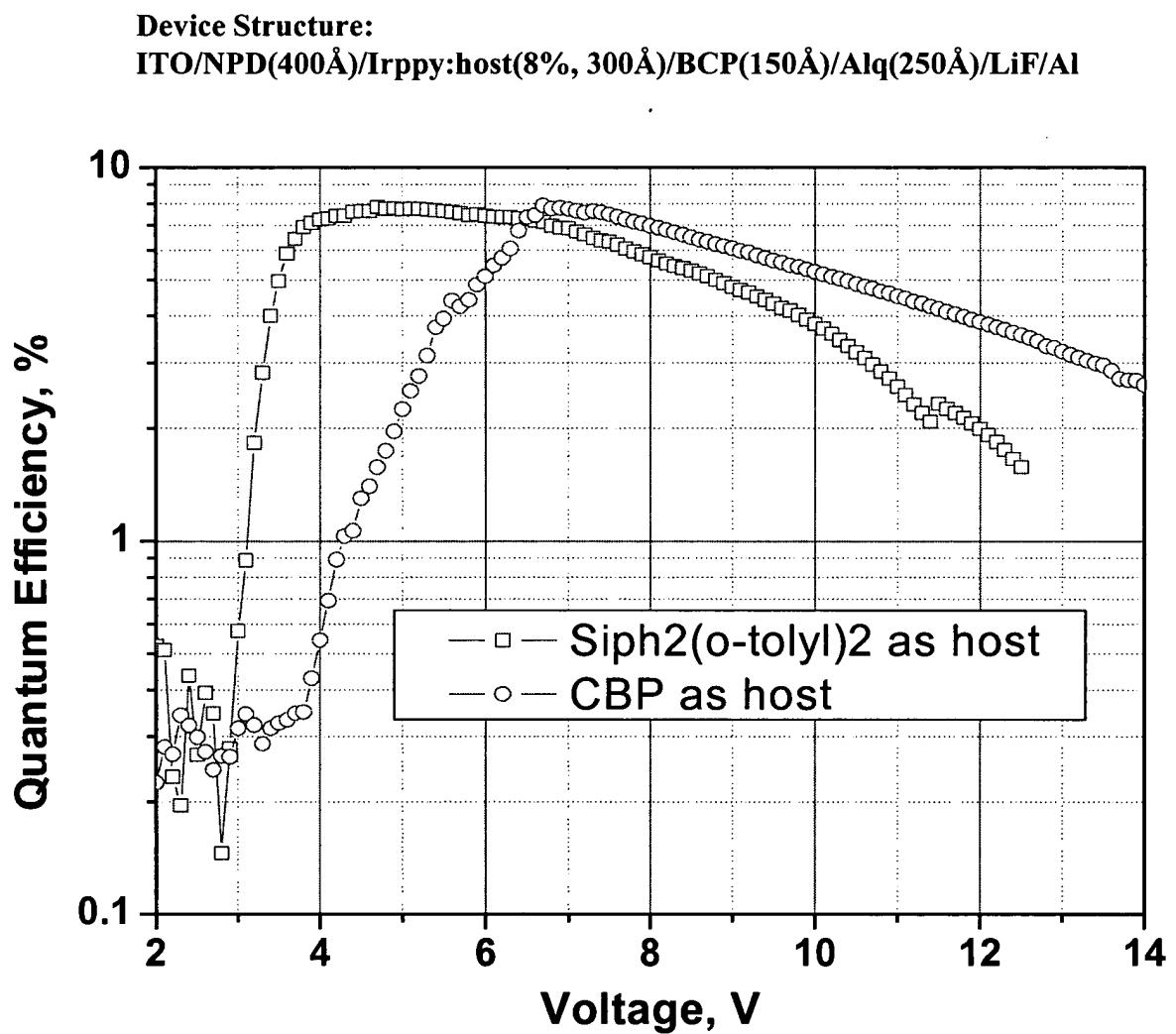


Figure 12

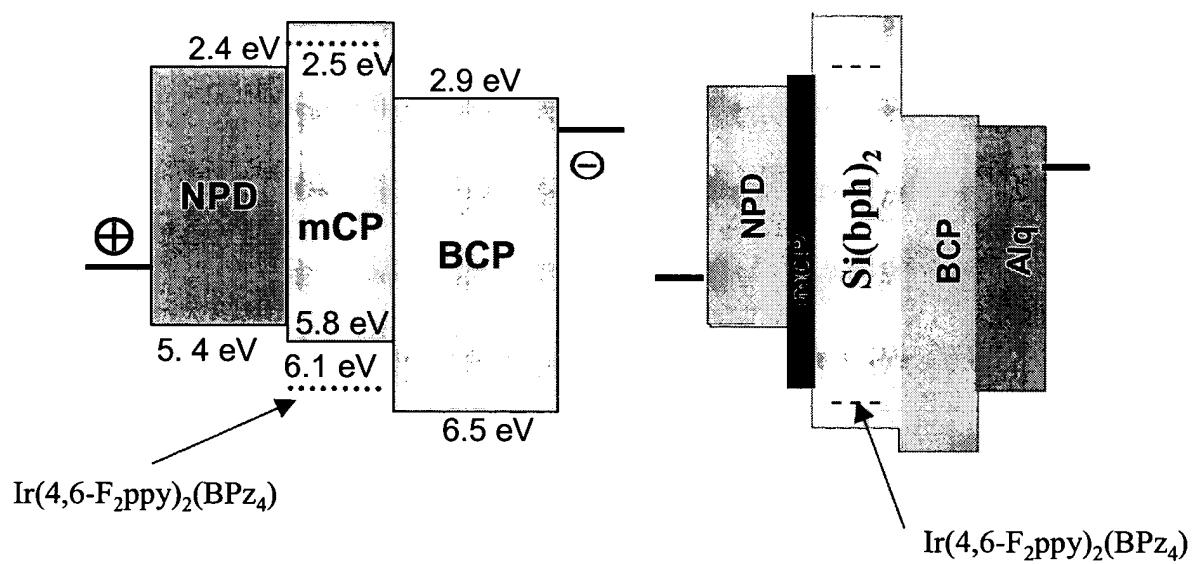


Figure 13

Device Structure:

ITO/NPD(400Å)/mCP(100Å)/Ir($4,6\text{-F}_2\text{ppy}$)₂(BPz₄):host(8-9%, 250Å)/BCP(150Å)/Alq(250Å)/LiF/Al

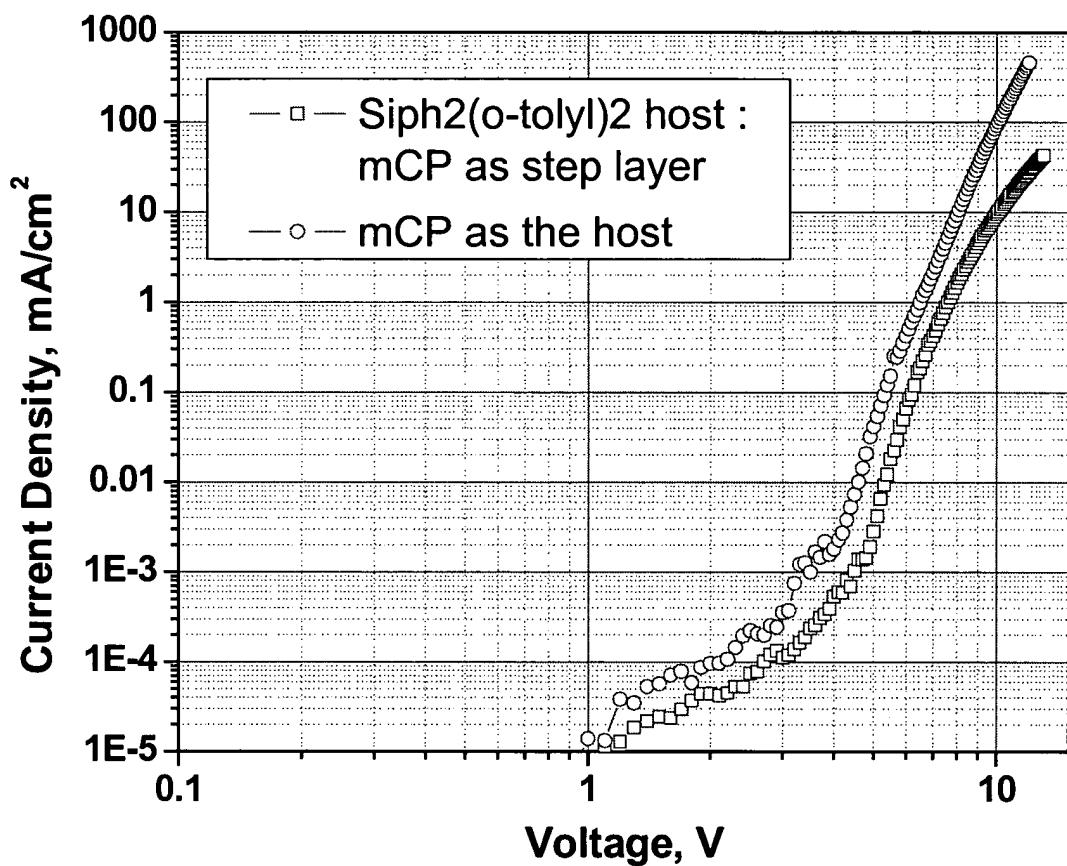


Figure 14

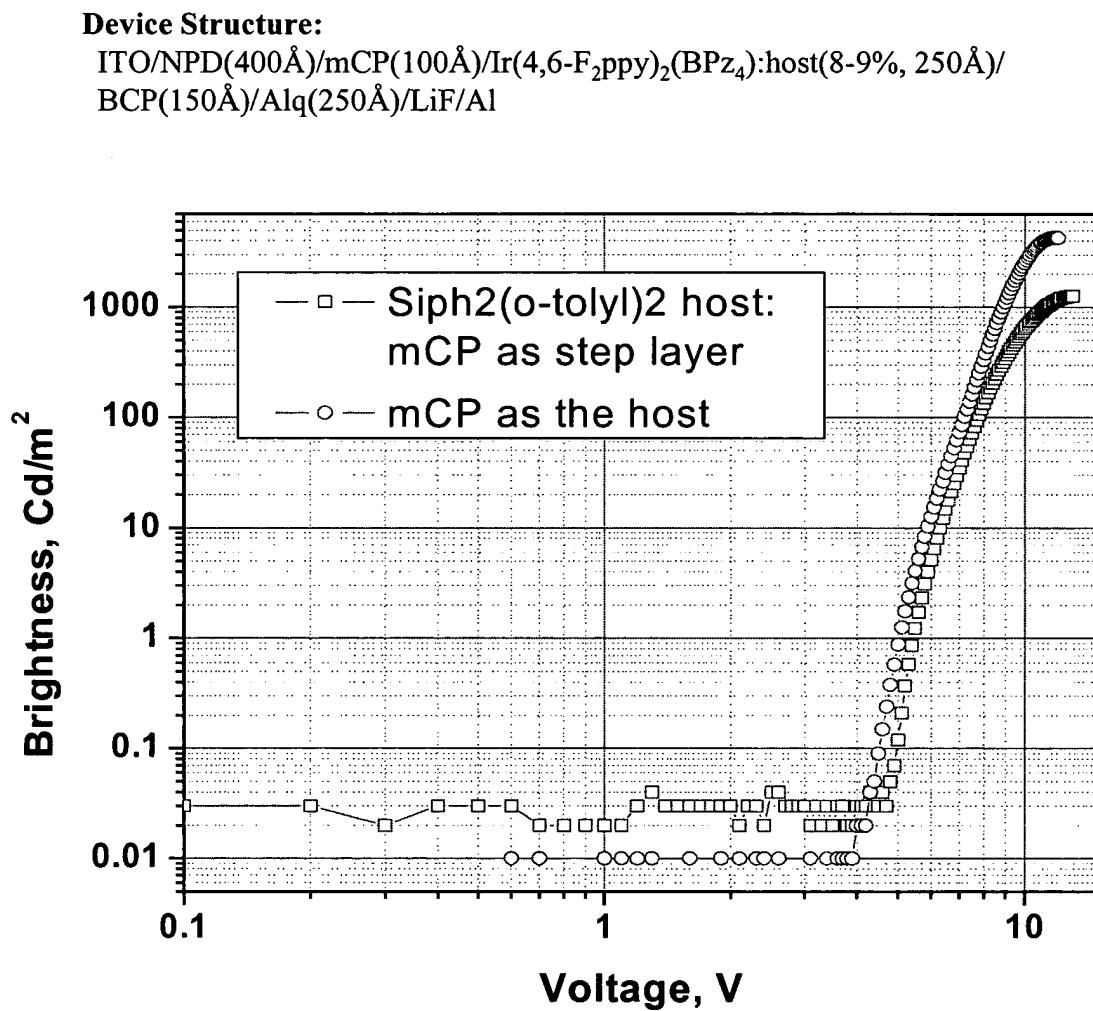


Figure 15

Device Structure:

ITO/NPD(400Å)/mCP(100Å)/Ir($4,6\text{-F}_2\text{ppy}$)₂(BPz₄):host(8-9%, 250Å)/BCP(150Å)/Alq(250Å)/LiF/Al

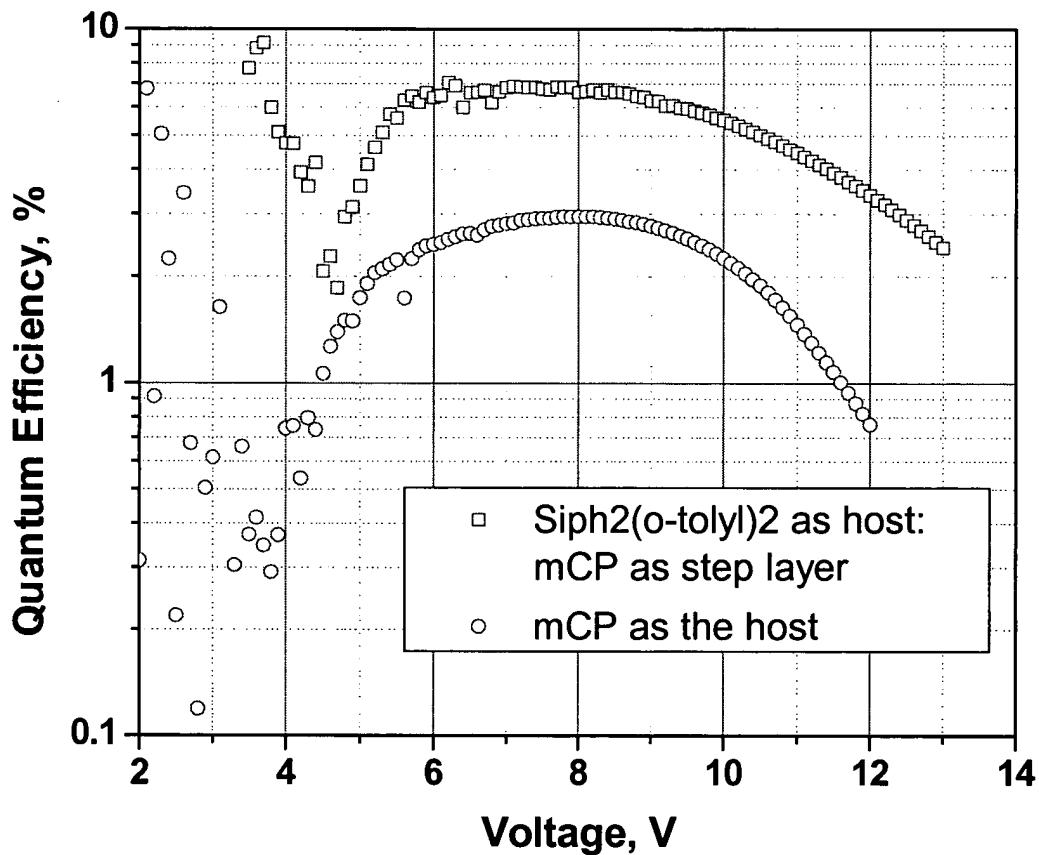


Figure 16

ITO/NPD(400Å)/mCP(100Å)/Ir(4,6-F₂ppy)₂(BPz₄): Si(bph)₂(250Å)/BCP(150Å)/Alq(250Å)/LiF/Al

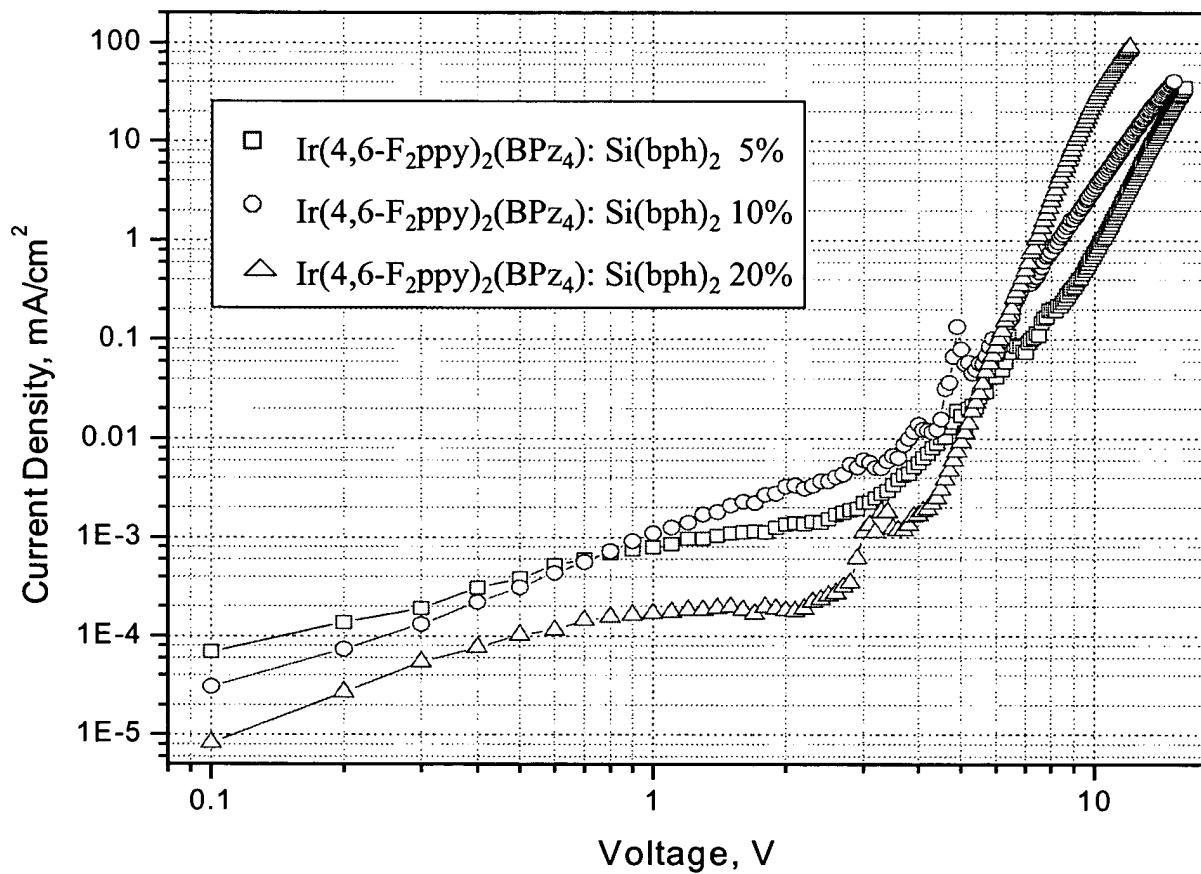


Figure 17

ITO/NPD(400Å)/mCP(100Å)/ Ir($4,6\text{-F}_2\text{ppy}$)₂(BPz₄): Si(bph)₂ (250Å)/BCP(150Å)/Alq(250Å)/LiF/Al

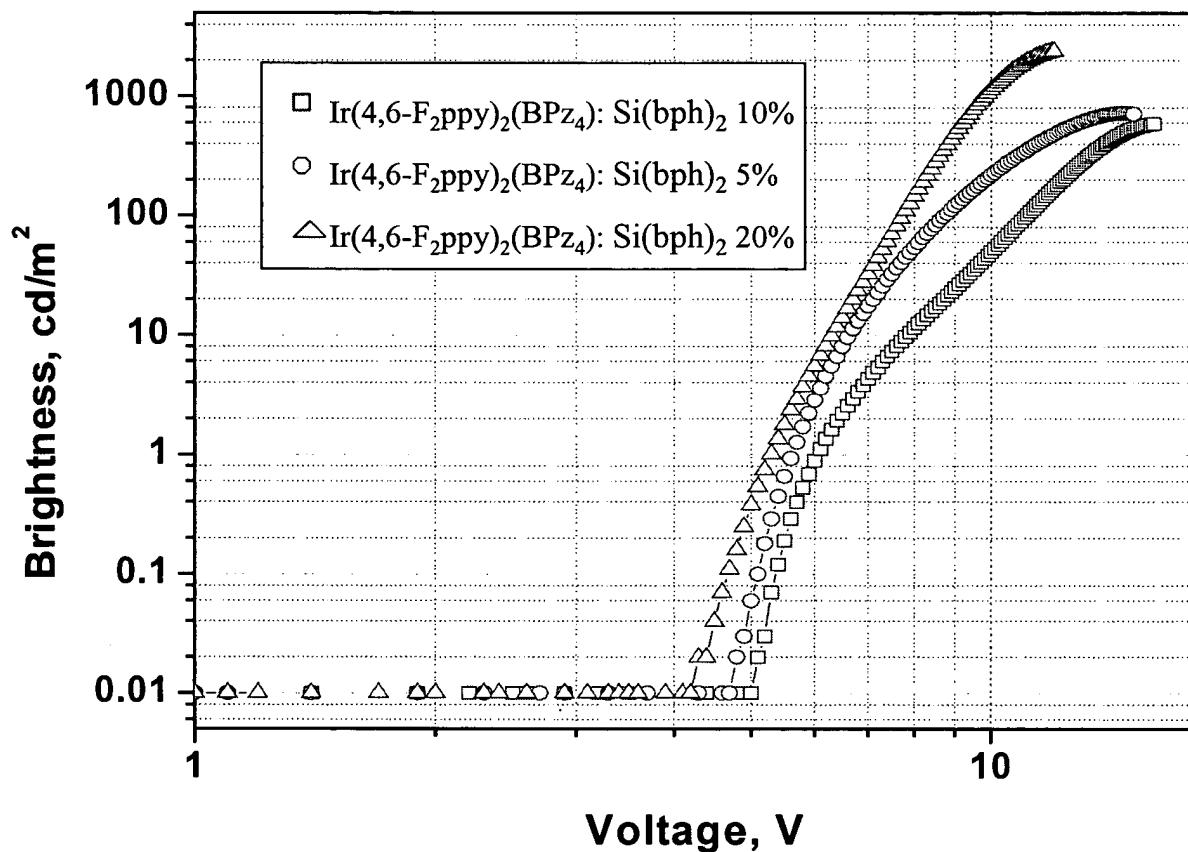


Figure 18

ITO/NPD(400Å)/mCP(100Å)/Ir($4,6\text{-F}_2\text{ppy}$)₂(Bpz₄): Si(bph)₂ (250Å)/BCP(150Å)/Alq(250Å)/LiF/Al

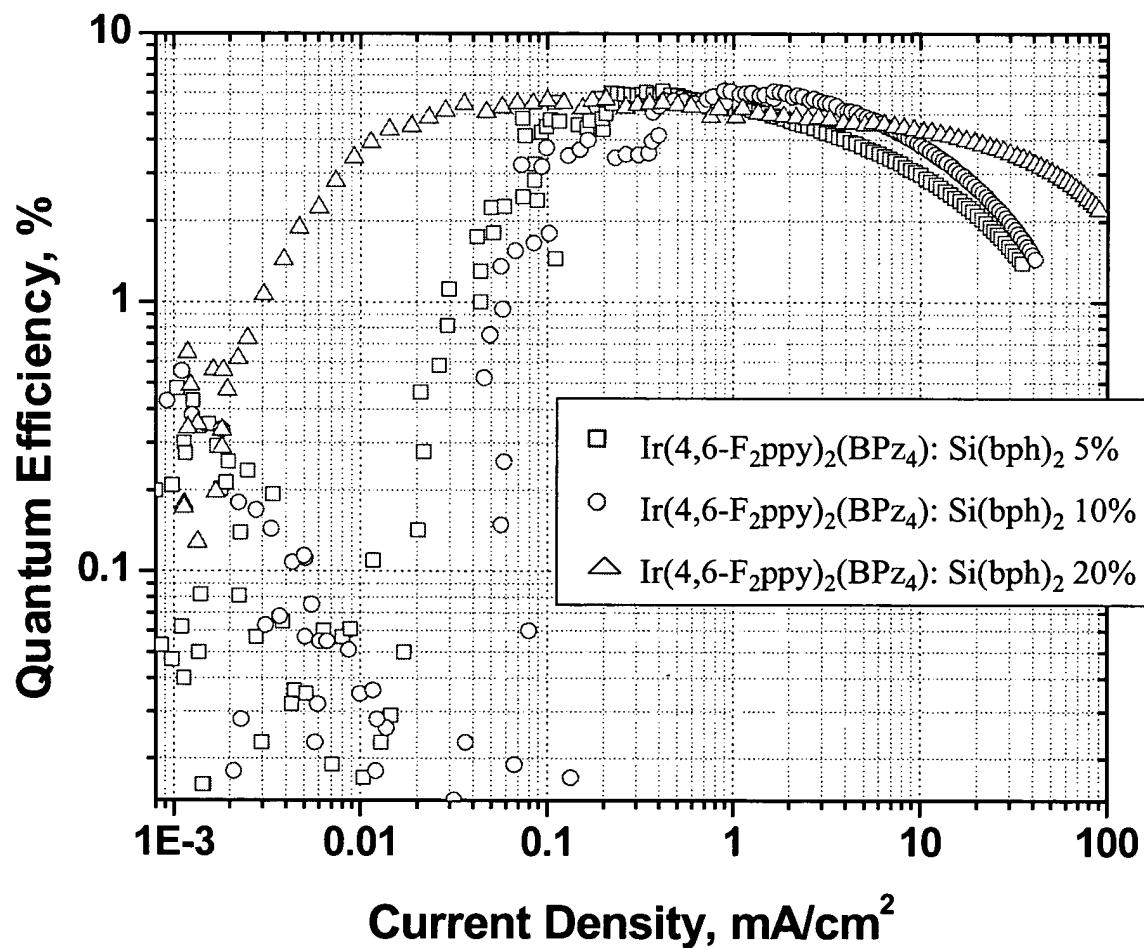


Figure 19

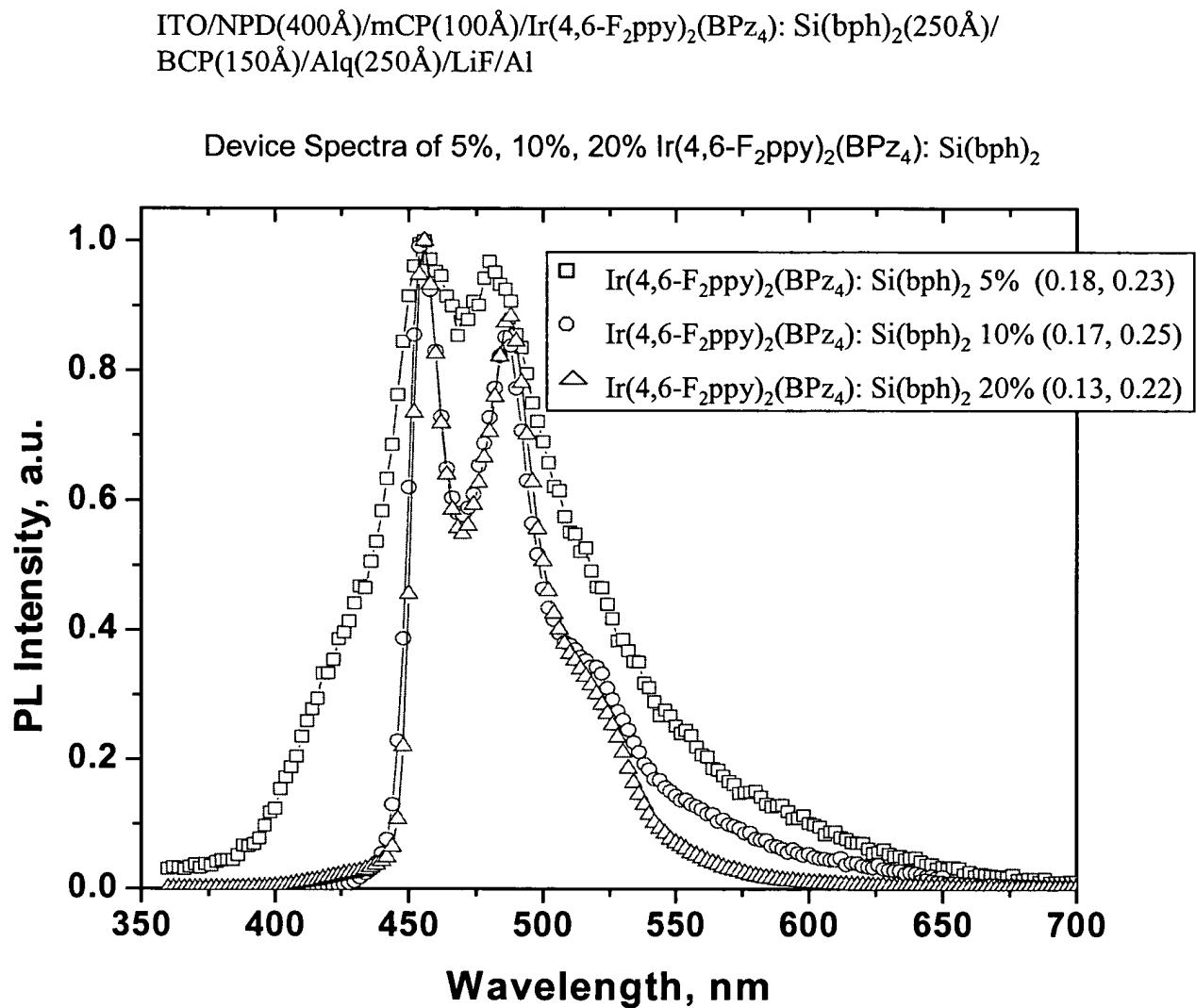


Figure 20

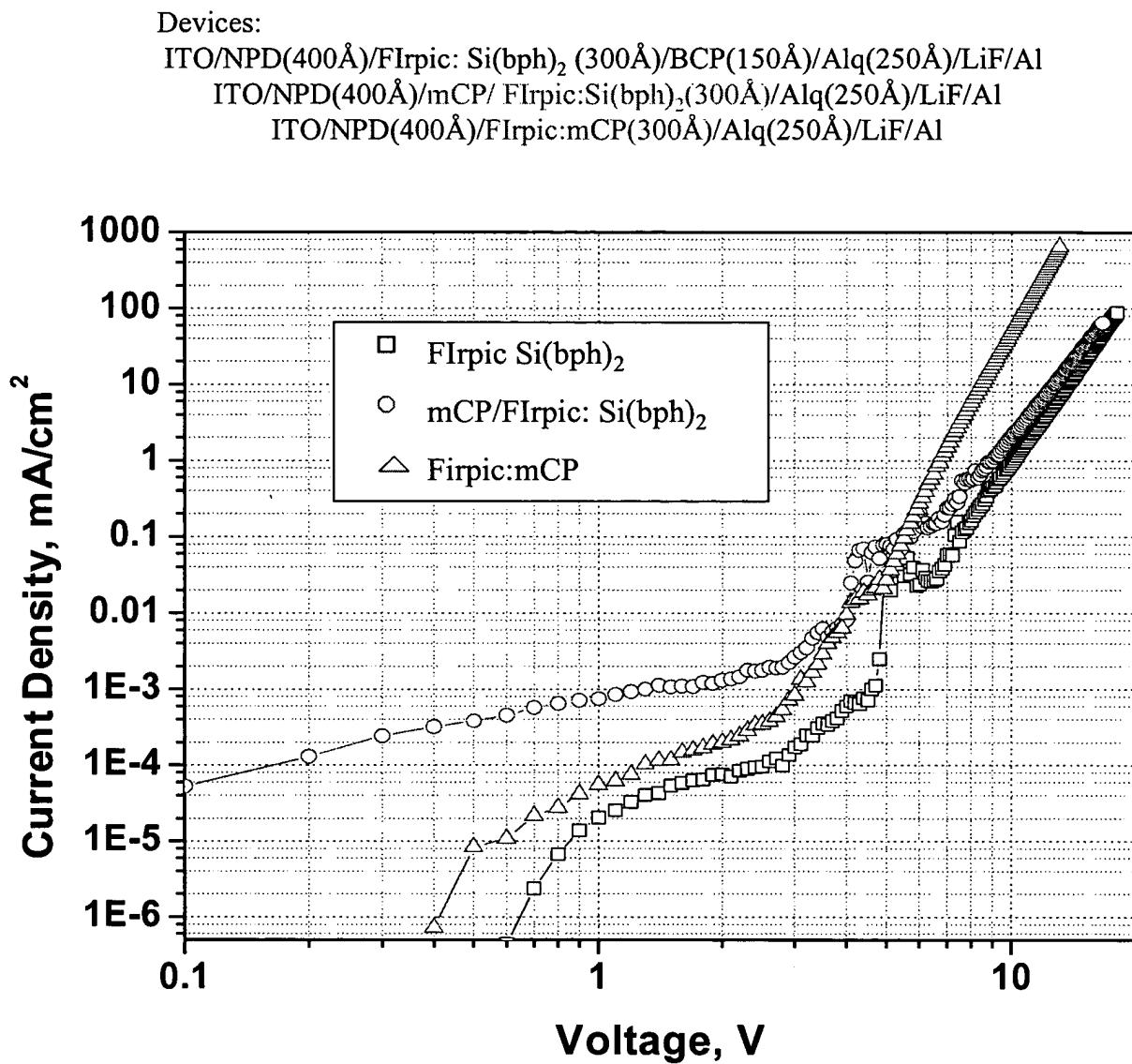


Figure 21

Devices:

ITO/NPD(400Å)/FIrpic:Si(bph)₂(300Å)/BCP(150Å)/Alq(250Å)/LiF/Al

ITO/NPD(400Å)/mCP/ FIrpic:Si(bph)₂(300Å)/Alq(250Å)/LiF/Al

ITO/NPD(400Å)/FIrpic:mCP(300Å)/Alq(250Å)/LiF/Al

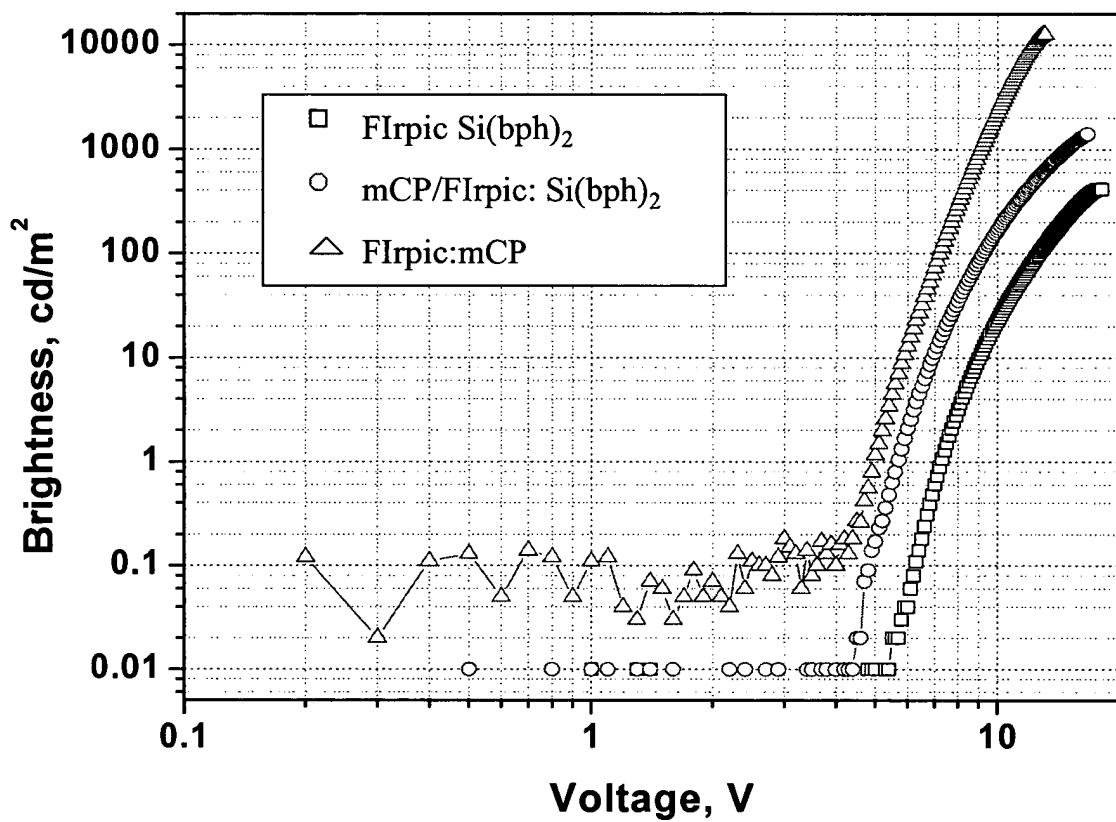


Figure 22

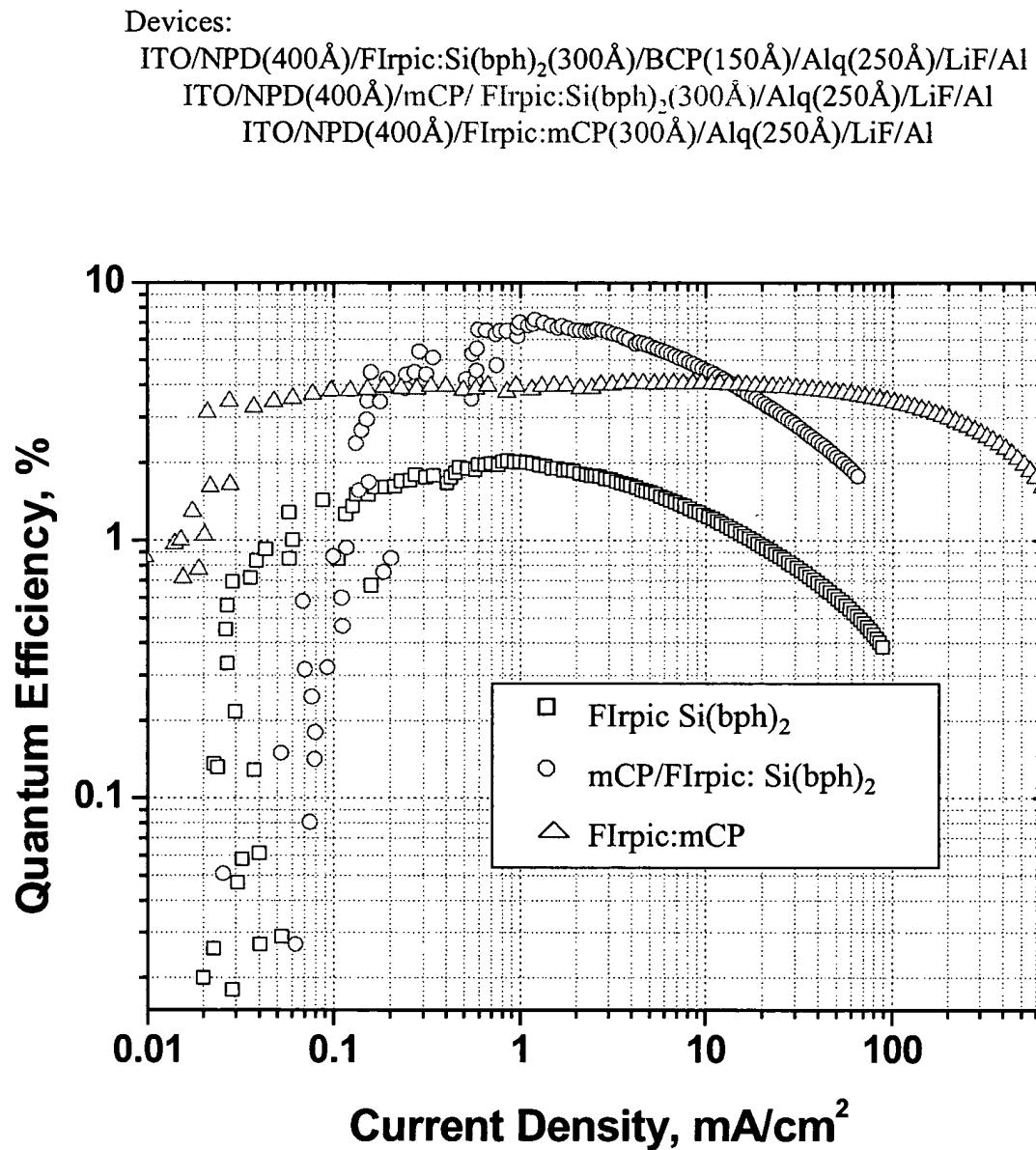


Figure 23

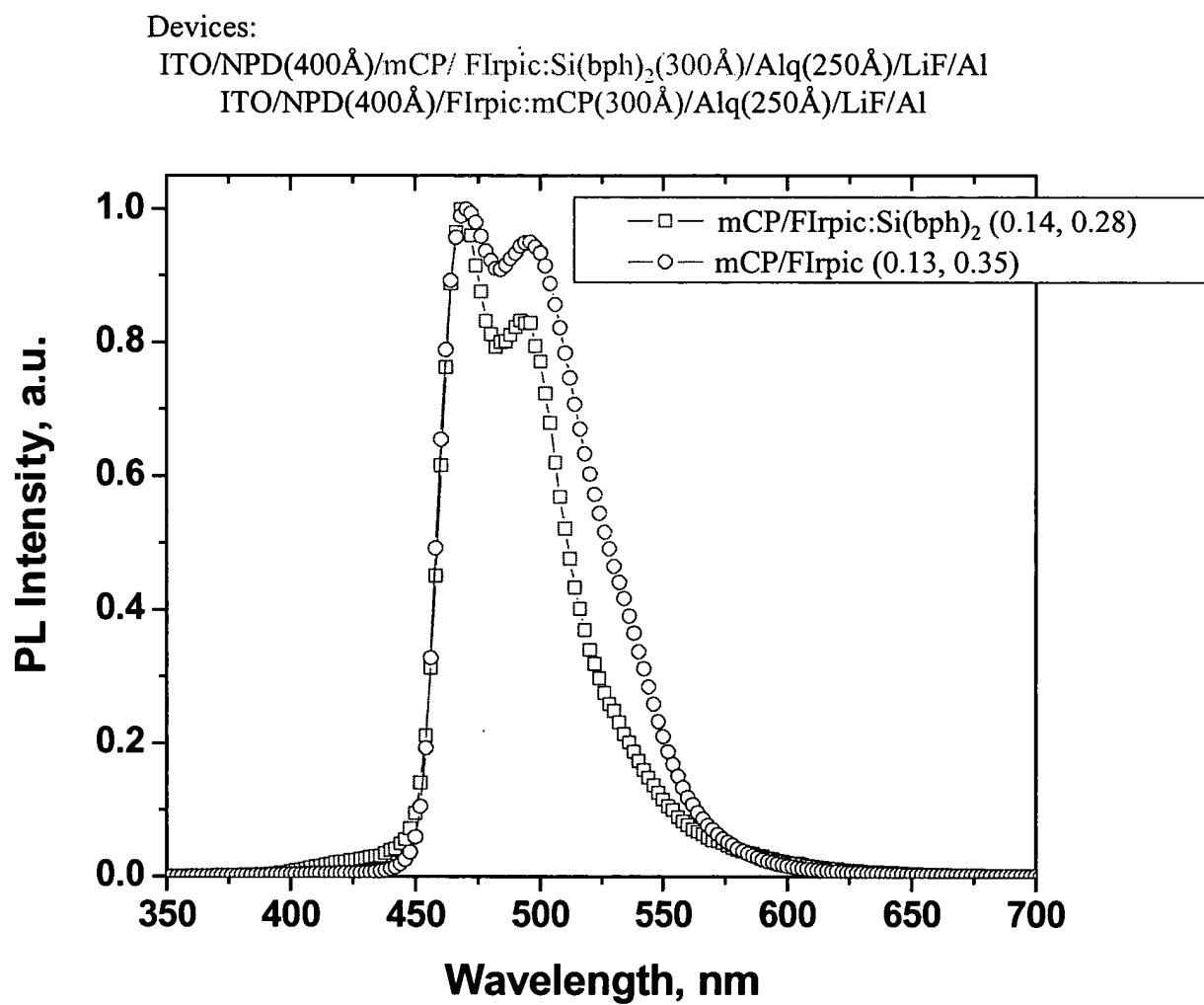


Figure 24

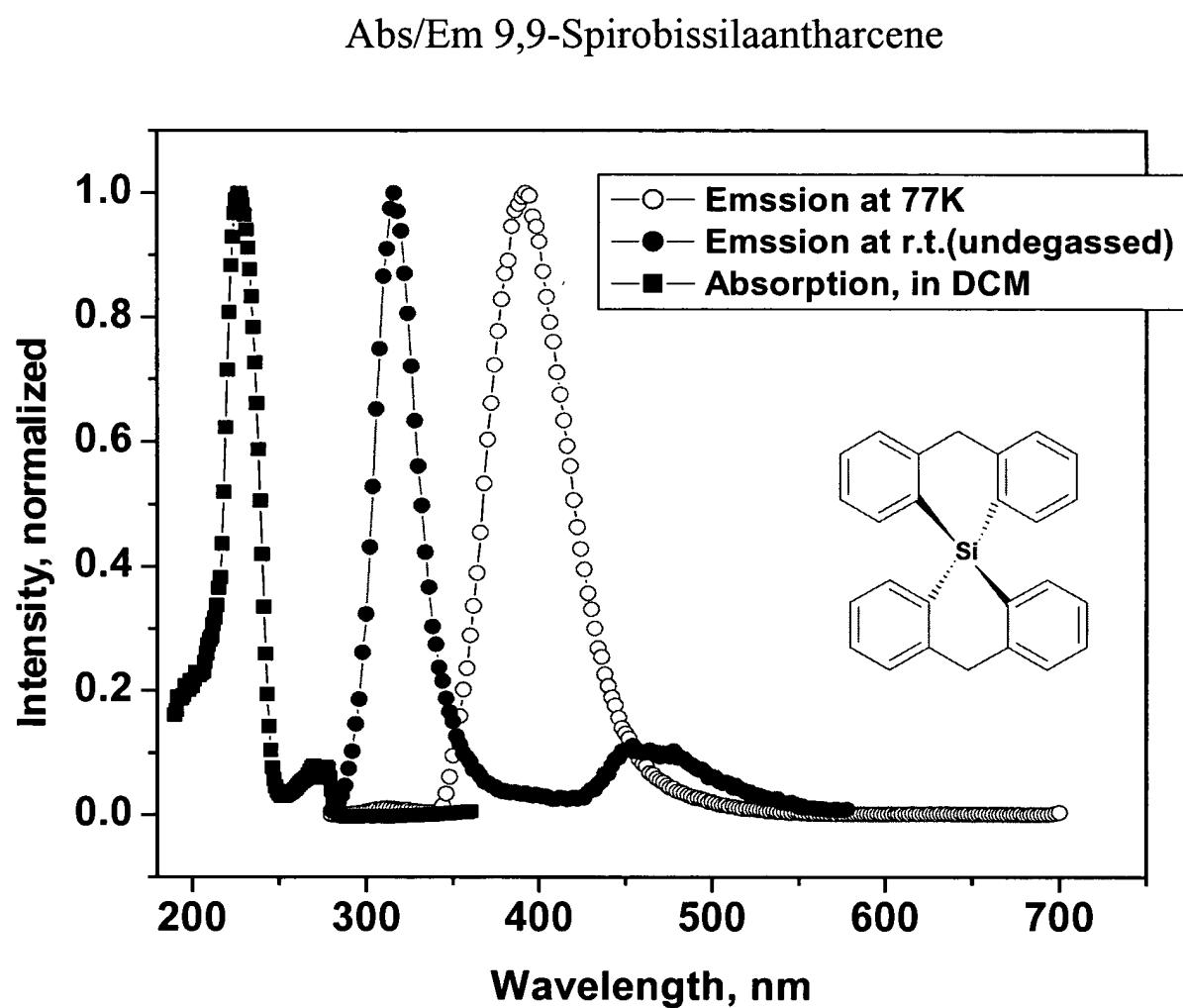


Figure 25

OctaPhenyl-Polyhedral Oligomeric SilSesquioxane

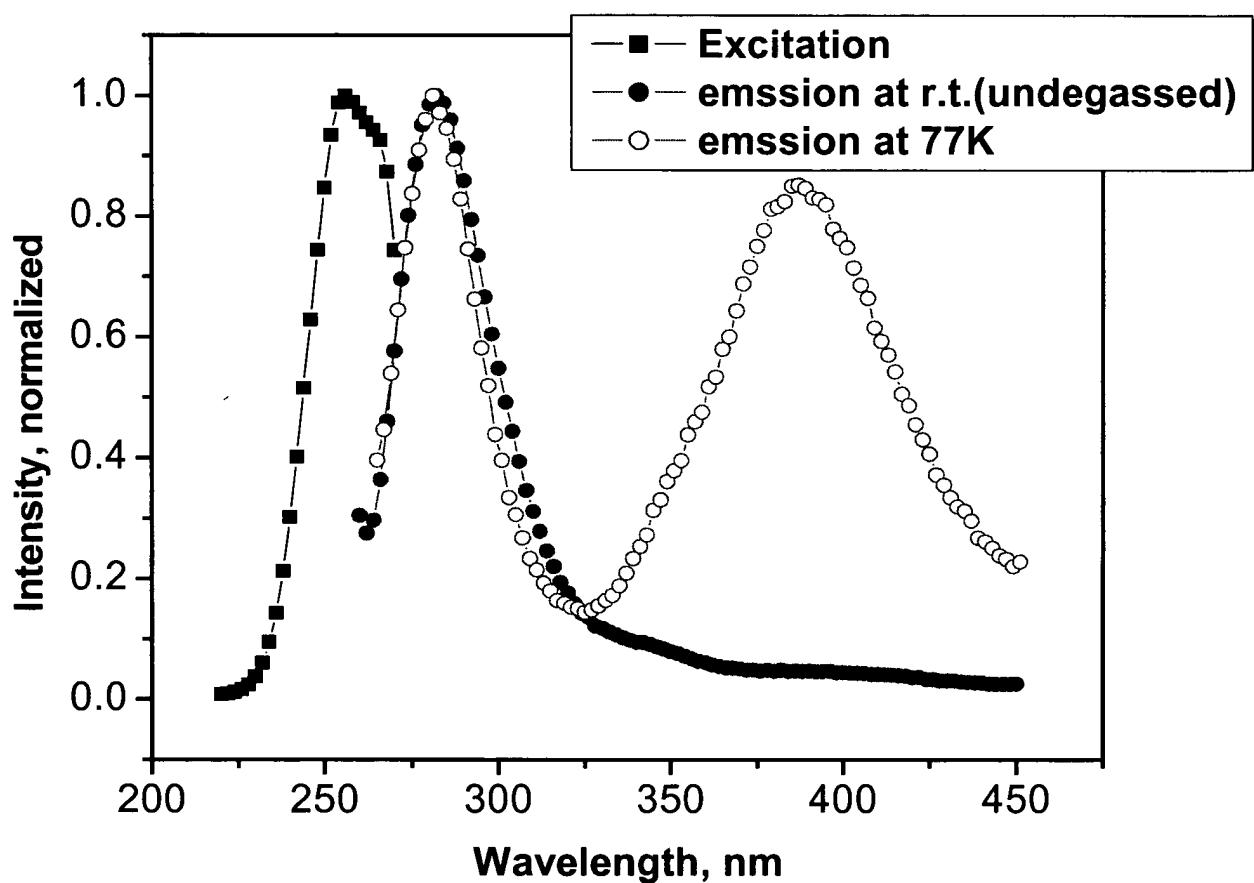


Figure 26

ITO/NPD(400Å)/mCP(100Å)/Ir($4,6\text{-F}_2\text{ppy}$) $_2$ (BPz $_4$):Siph $_2$ (o-tolyl) $_2$ (10%, 250Å)/BCP(400Å)/LiF/Al

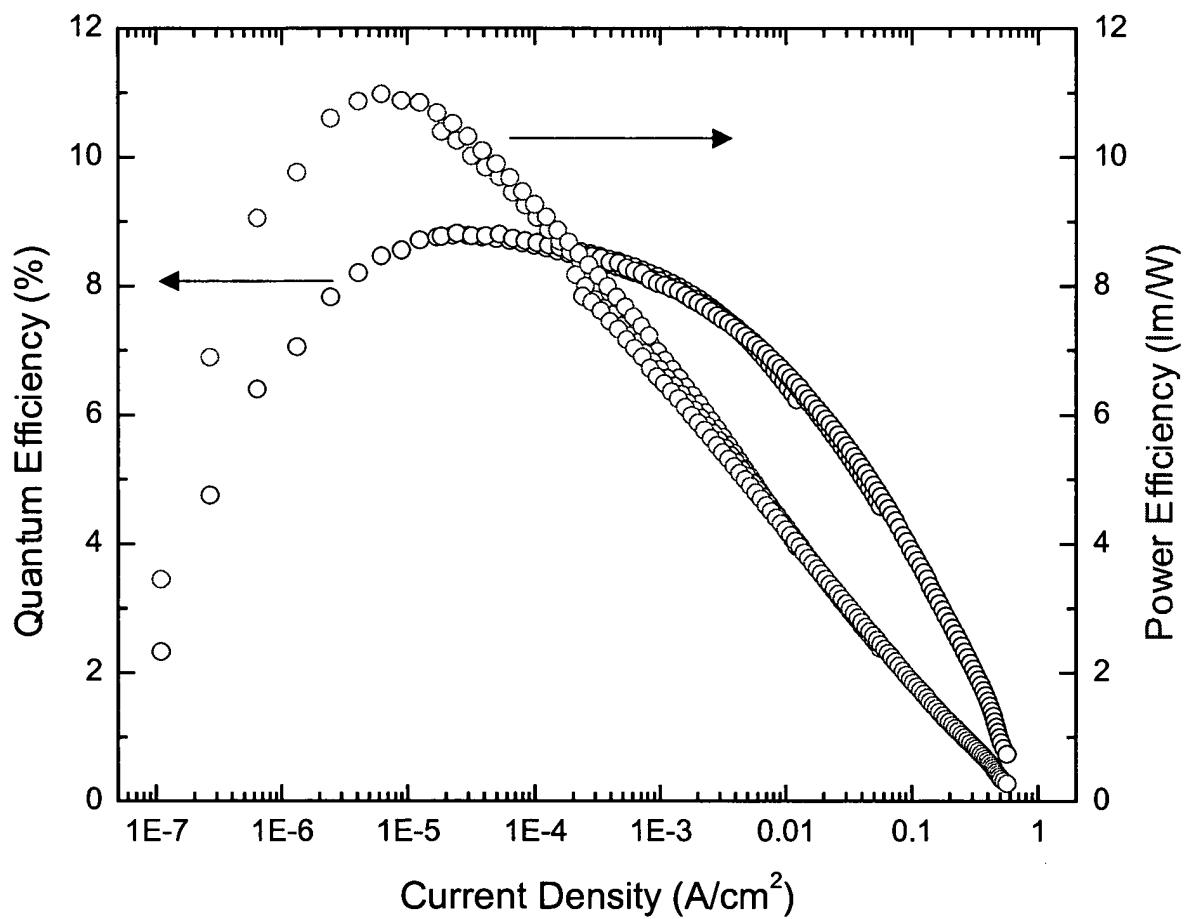


Figure 27

ITO/NPD(400Å)/mCP(100Å)/Ir(4,6-F₂ppy)₂(BPz₄):Siph₂(o-tolyl)₂(10%, 250Å)/BCP(400Å)/LiF/Al

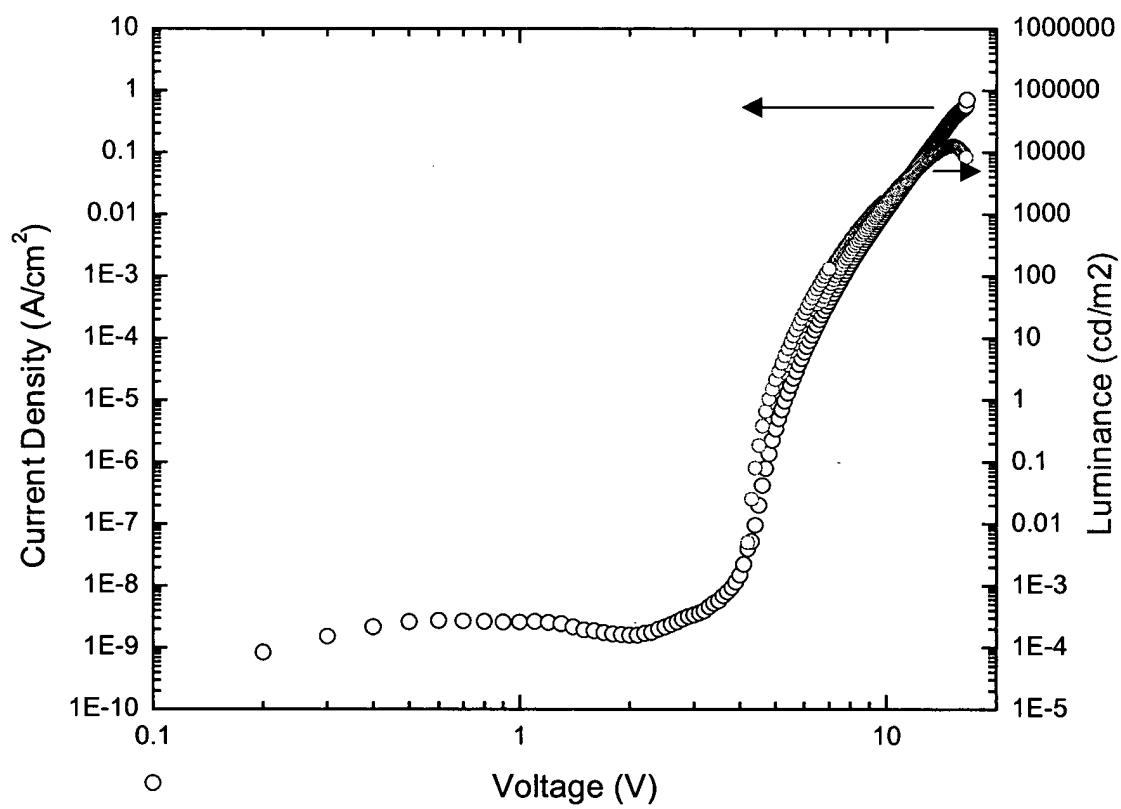


Figure 28

ITO/NPD(400Å)/mCP(100Å)/Ir(4,6-F₂ppy)₂(BPz₄):Siph₂(o-tolyl)₂(10%, 250Å)/BCP(400Å)/LiF/Al

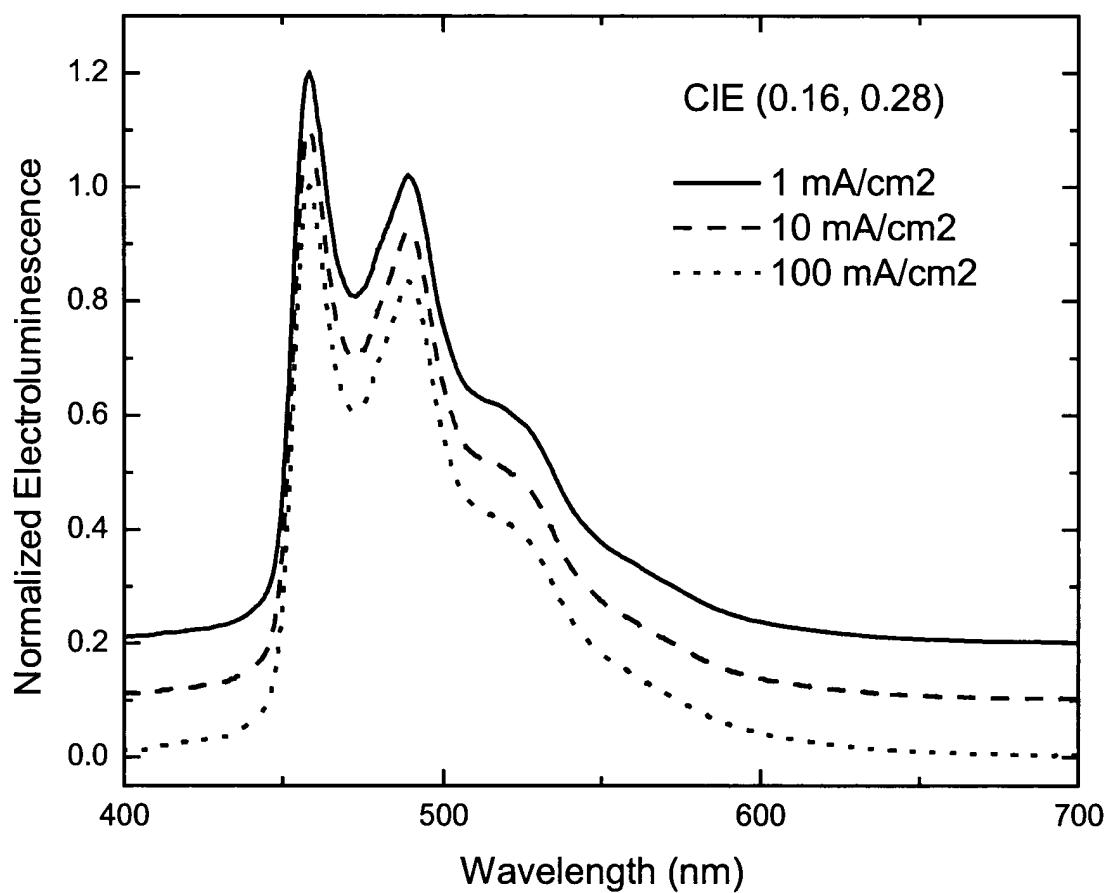


Figure 29

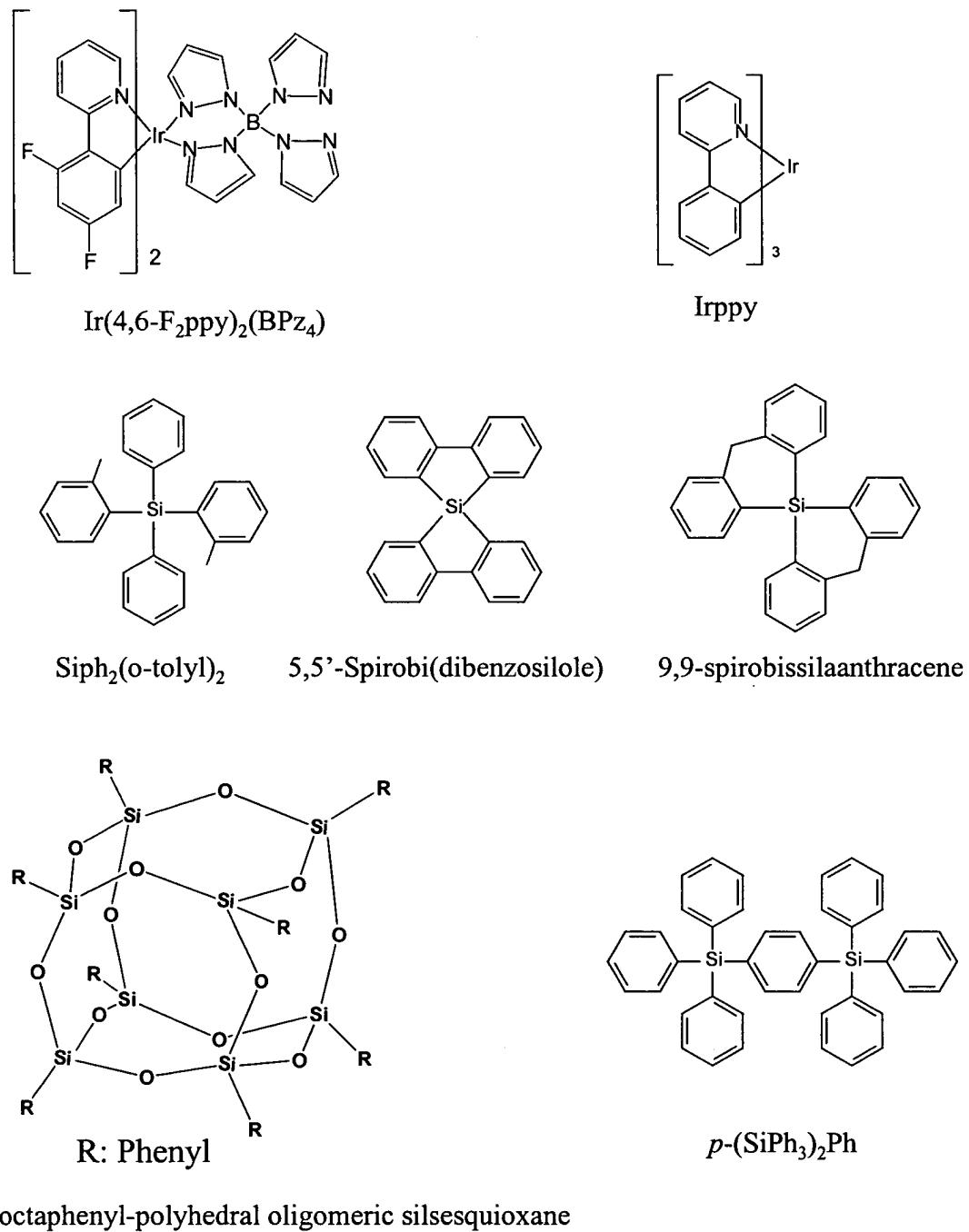


Figure 30

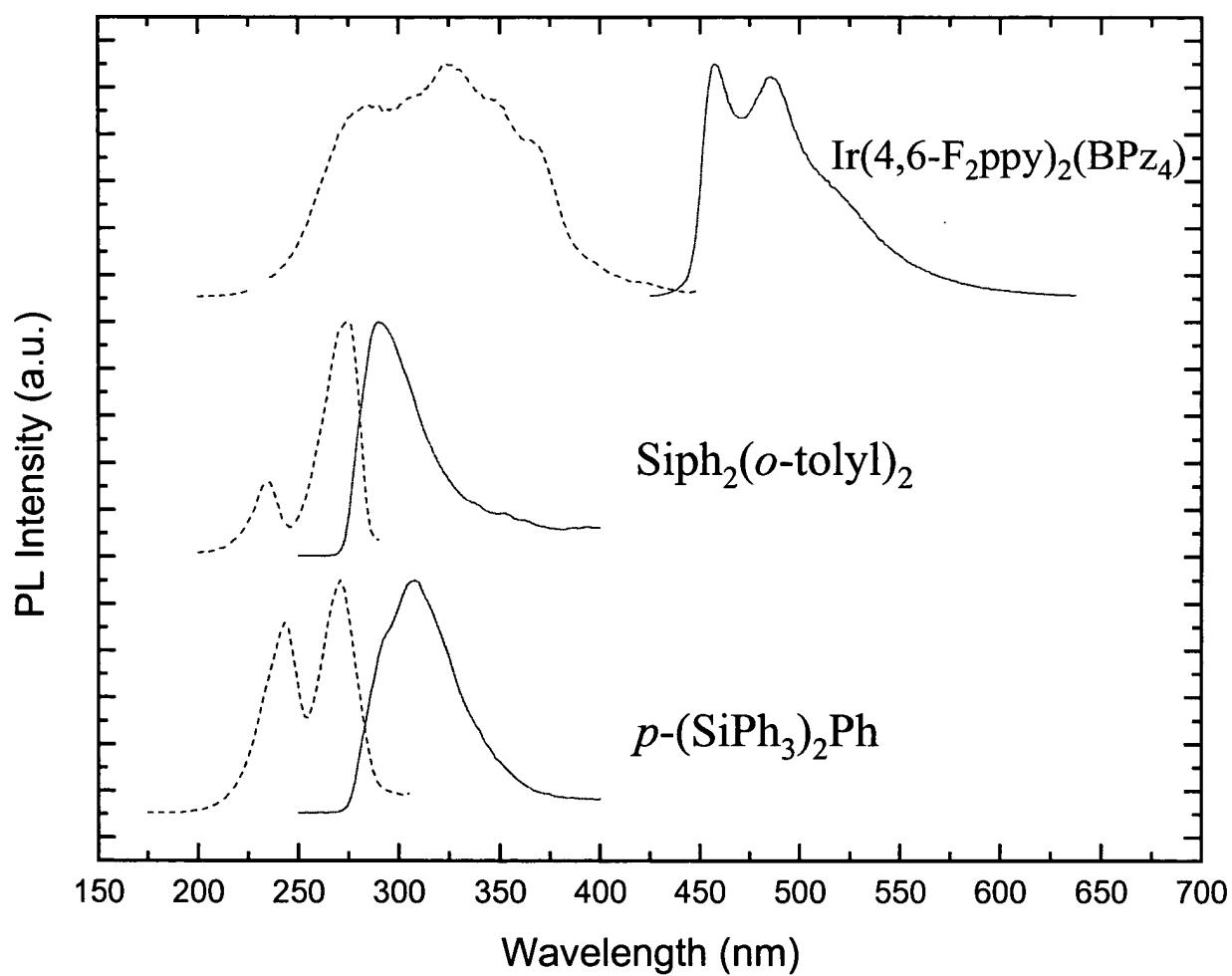


Figure 31

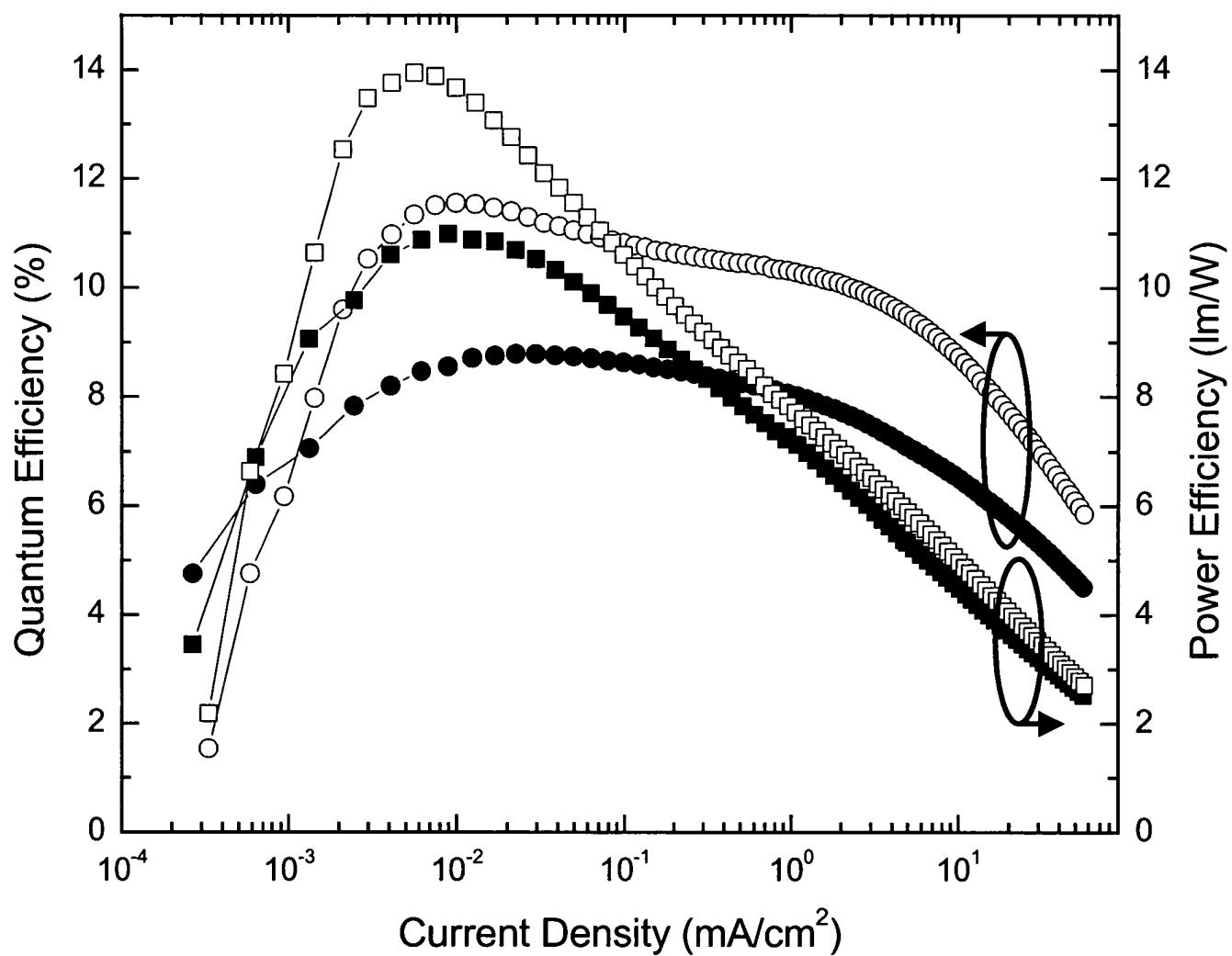


Figure 32

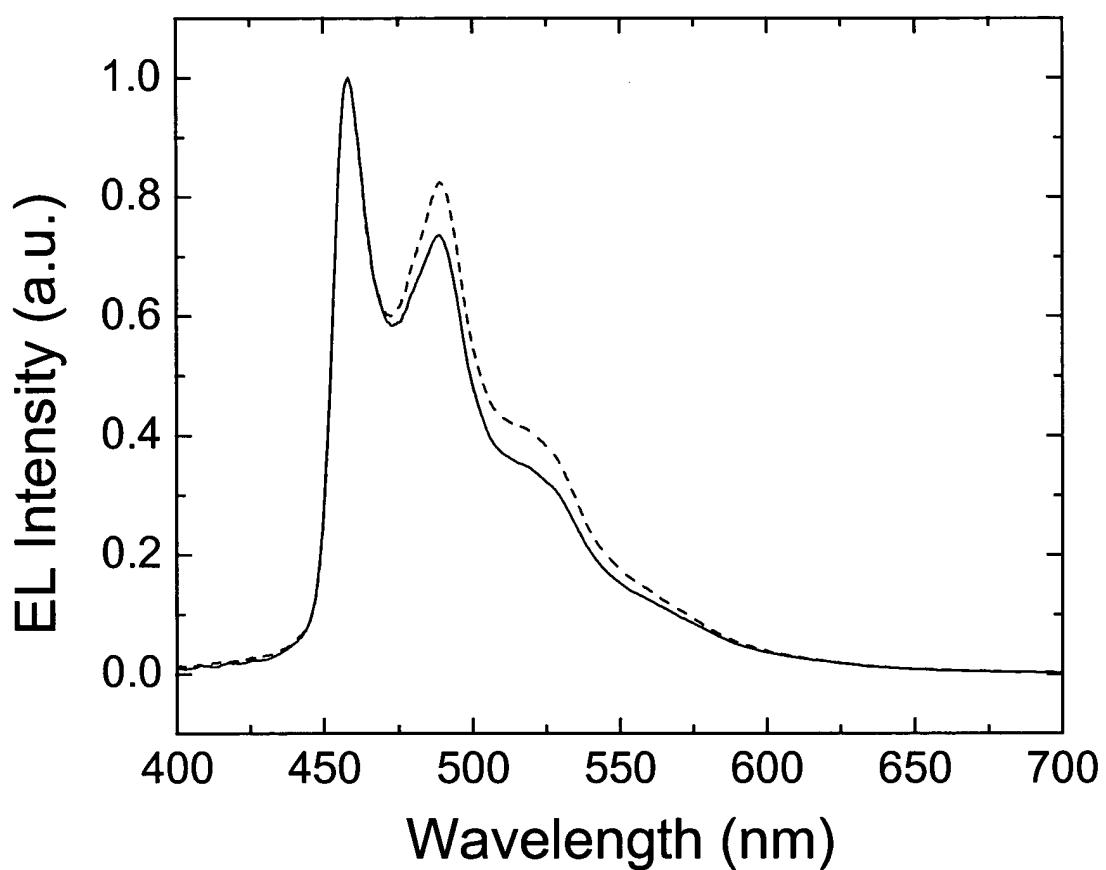


Figure 33

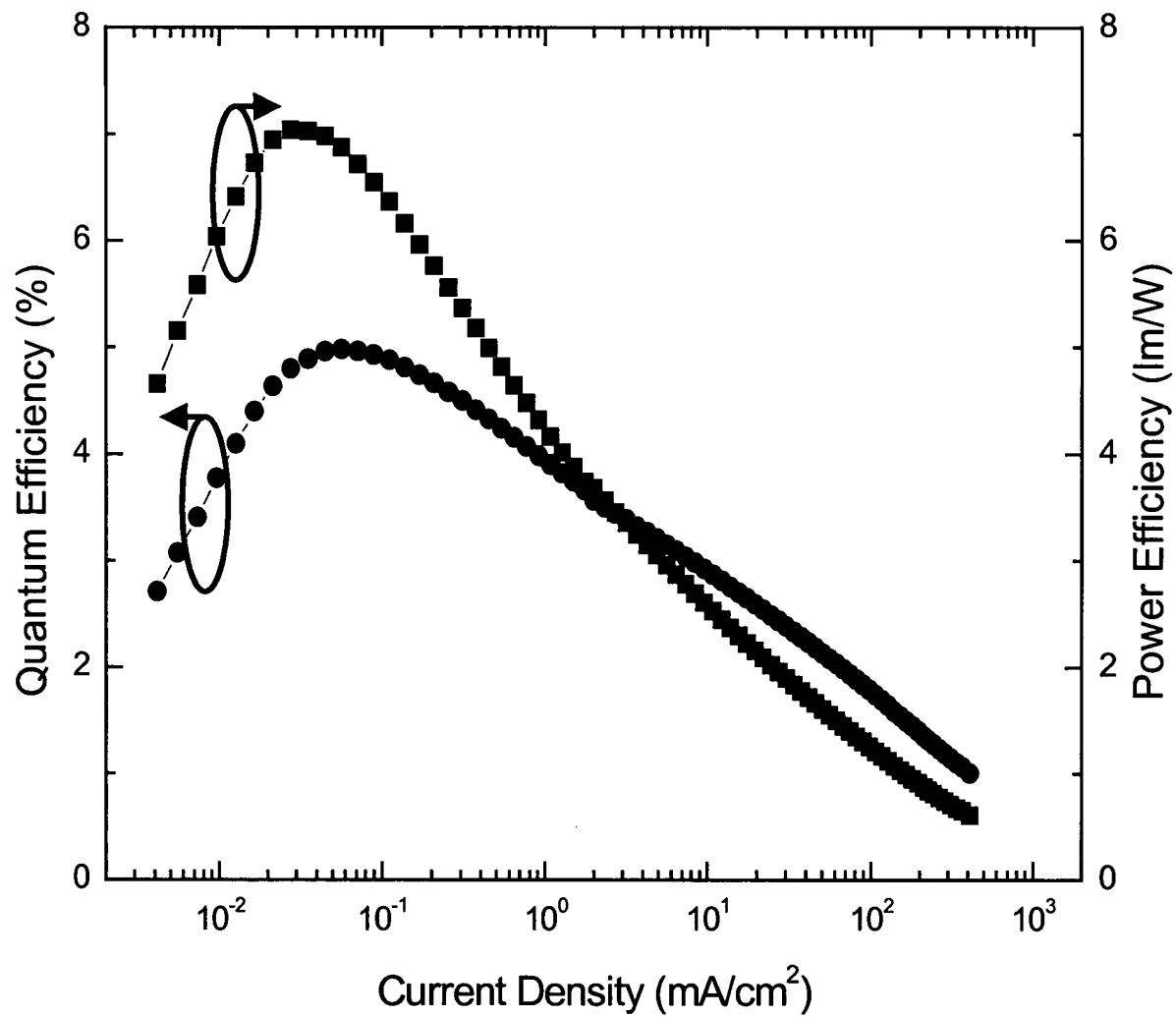


Figure 34

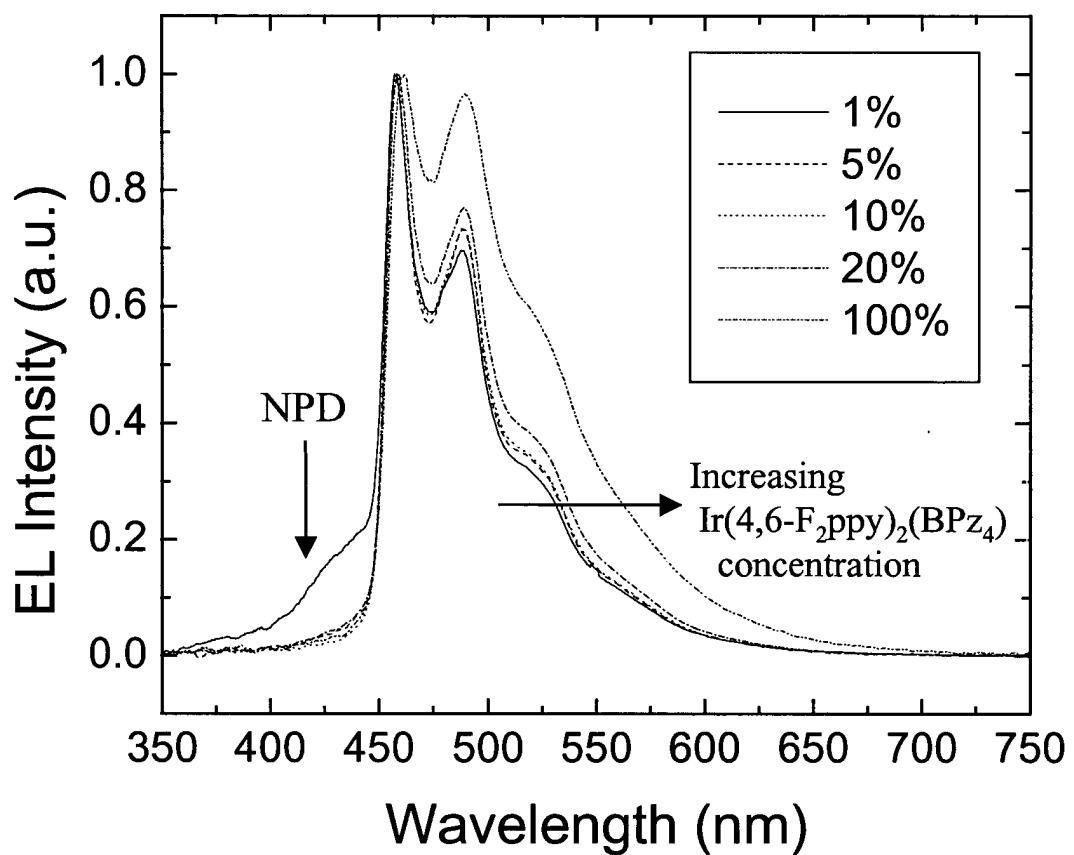


Figure 35

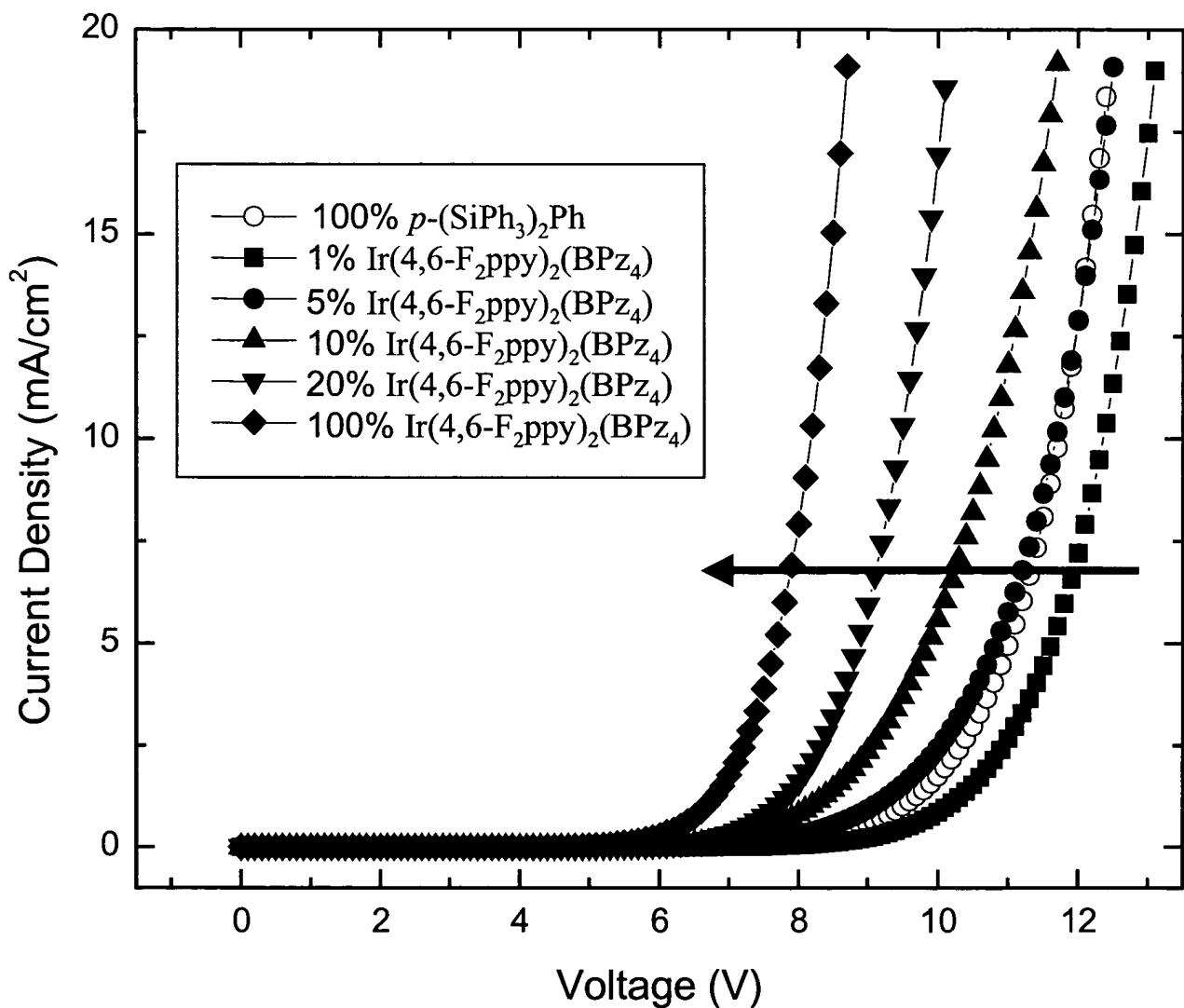


Figure 36

